THE

REGISTRAR-GENERAL'S

DECENNIAL SUPPLEMENT

ENGLAND AND WALES

1921

PART II. OCCUPATIONAL MORTALITY, FERTILITY, AND INFANT MORTALITY.

LONDON:
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE
To be purchased directly from H.M. STATIONERY OFFICE at the following addresses:
Adastral House, Kingsway, London, W.C. 2; 120, George Street, Edinburgh;
York Street, Manchester; 1, St. Andrew's Crescent, Cardiff;
15, Donegall Square West, Belfast;
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1927.

Price 7s. 6d. Net.

70—217

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OCCUPATIONAL MORTALITY, FERTILITY, AND INFANT MORTALITY.

REPORT.

INTRODUCTION.

The present report on Occupational Mortality differs from its predecessors in certain respects, each of which requires justification, as the advantages of continuity in such a series as these reports form should not be lightly sacrificed.

In the first place, it deals with the natality and infant mortality of occupations as well as with the mortality of their members themselves, that is to say, with the frequency of births to each occupation and with the frequency of death amongst the infants born. This portion of the report, which is in continuation of those published for 1911 on the same subjects in the Annual Reports of the Registrar-General for 1911 and 1912, will be found in pages xcv–cii, and refers to the census year 1921 only, whereas the remainder of the report resembles its predecessors in dealing with the deaths of members of the occupations compared during three years. But these years are 1921–23, and not, as would accord with precedent, 1920–22. By this change the advantage has been sacrificed of making the census population represent as nearly as possible the mean for the three years dealt with. But the circumstances of the time were very abnormal. At the beginning of 1920 demobilisation had not long been completed, and there was consequently reason to suppose that large numbers of men recently discharged from military service had not yet found their way into permanent employment. It seemed probable, therefore, that the deaths registered in 1920 could not be accepted as corresponding with a normal occupational distribution of the population, and it was accordingly decided to substitute the deaths for 1923, even at the cost of assuming the population for the first, rather than the second, of the three years dealt with as constant throughout the whole period. This course, moreover, had the further advantage of dealing with a period during which the classifications used, both for occupations and for causes of death, had remained constant throughout. Otherwise the modifications in the International List of Causes of Death, first taking effect in 1921, would have caused a certain amount of embarrassment and added labour in tabulation, and the much more radical changes in the classification of occupations, dating from the same period, would have entailed a correspondingly greater difficulty.

It is the latter changes which have involved the most serious loss of comparability between the present report and its predecessors, dating back to 1851 (Fourteenth Annual Report, pp. xv–xxiii). But as the nature and effects upon comparability of these changes, as well as the reasons for making them, have already been discussed in the General Report on the Census of 1921 (pp. 86–89), they need not be restated here. The present report differs from its predecessors mainly because for the first time it distinguishes occupations on purely occupational lines. The effect of this is to accentuate contrast between the mortalities of the occupations compared, the real differences having previously been understated. For the records for an unhealthy occupation are no longer, as before, diluted by inclusion of those for other workers, industrially or otherwise related, but not subject to the same occupational risk. An instance of the effect of this change, quoted in the General Report, is the case of the cutlery grinders. These workers, who are subject to special silica risk, were formerly grouped with all others concerned in the manufacture of cutlery, many of whom are subject to no special risk, under the heading "cutler, scissors maker," with the result that the mortality of the composite group in 1910–12 exceeded the average by 63 per cent. For 1921–23, however, we have figures relating to the actual grinders of cutlery (*i.e.*, men classed occupationally as metal grinders and industrially as employed in the cutlery trade), and it is found that the corresponding excess of their mortality is no less than 230 per cent.* This may be regarded as a new revelation of occupational risk, for the results of the old classification gave no indication of such an extreme degree of mortality excess. But even apart from such sensational results, of which the case of the cutlery grinders forms the best example, the new classification throws much additional light on occupational mortality by showing on which workers the risk falls in industries already known to involve special danger to life. The pottery trade furnishes an example of this.

In the old classification all pottery workers were grouped under the title "potters; earthenware, etc., manufacture," and in the report dealing with occupational mortality for the years 1910–12 these workers were shown to be subject to a mortality 51 per cent. above the average. It is now possible to ascertain which processes contribute most to this excess, and reference to Table B shows that the mortality of potters, millworkers, and slip makers is 64 per cent., that of dippers and glazers 41, and that of the oven men and placers 83 per cent. above average.

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* Unfortunately, the mortality ratios quoted in the General Report are incorrect. At all ages for which the calculation can be made (16 and upwards) the excess of deaths recorded for cutlery grinders over those at the rates for all occupied and retired civilians is 172 per cent.; at 20–65, 230 per cent., and at 25–65, the ages dealt with in 1910–12, 240 per cent.

As comparison of the records for 1921–23 with those of previous reports had been rendered impossible by these radical changes in occupational classification, it has not been necessary in deciding on methods of tabulation to adhere to those previously followed for the sake of comparability. Advantage has been taken of this freedom to introduce some minor modifications of method, but no radical change has been made. Allowance for the effect, often great, of differences in the age constitution of the occupations compared is still made, as before, by means of a "Comparative Mortality Figure" (C.M.F.). This is really a standardized death-rate, similar to those used in the text of the Statistical Review, but based on a population* so chosen as to yield exactly 1,000 deaths at the death-rates for different ages prevailing amongst all occupied and retired civilian males in 1921–23 (see page 2, Abstracts). This population differs in two respects from that upon which the comparative mortality figures of the two preceding returns (for 1900–02 and 1910–12) were based. This was a sample of the general male population (including the never occupied as well as the occupied and retired) in 1901 so chosen as to yield 1,000 deaths at the age mortality rates prevailing in 1900–02. The same basis was retained for 1910–12 for the sake of comparability with the past, in accordance with the practice followed in the Statistical Review. But, as already explained, this consideration does not apply to 1921–23, and advantage has been taken of this fact to change the basis to that of the 1921 census, which, of course, assigns weights to the age-group mortalities of 1921–23 occupations more appropriate to our present age distribution than those of twenty years earlier.

Besides the change in date there is a change also in the nature of the population used as the standard. Formerly the total male population aged 25-65 was employed, but now that of occupied and retired civilian males aged 20-65. The reasons for this change, together with those determining the policy, consistently followed in all the reports of this series, of excluding deaths after the age of 65 from the measure of general mortality applied to the various occupations, are discussed in Appendix A (page 117).

The use of a new standard population, yielding 1,000 deaths at average current mortality rates, for calculating the C.M.F.s (*see* Appendix A, page 119) in this report involves reversal of the policy followed in that for 1910–12, when the same standard was used as for 1900–02, yielding 1,000 deaths at that date, but only 790 in 1910–12. This was done in order that the C.M.F.s for 1910–12 might be comparable with those already published for 1900–02, and so measure changes of mortality for each occupation between the two periods. But as this is not possible in 1921–23, owing to the radical change in occupational classification described above, which effectively prevents almost all such comparisons, it was decided to obtain the advantages of a standard population typifying the age distribution of the period and furnishing C.M.F.s in percentage form.

Apart altogether from the question, discussed in Appendix A, of the most suitable method of summarizing its results, the collation of registered deaths with census population in order to obtain occupational mortality rates has always been recognized as involving a possible fallacy which must be referred to in this as in previous reports of the same series. It cannot be assumed that the deaths tabulated for any occupation have occurred exclusively amongst the men tabulated to that occupation. So far as this is the result of ordinary changes of occupation by men in normal health, as from agricultural labourer to policeman or farm bailiff, the returns are probably not prejudiced, especially when the population is that of the mid-year of the mortality experience dealt with, for as such changes of occupation are always going on the census figure may be regarded, at all events in normal times, as representing an unprejudiced and typical sample of the occupational population during the period supplying the deaths, and with which they may therefore be fairly compared, even if they are not of individuals actually included in the census occupational population in question. The only exception required to this statement applies to cases of rapid increase or decrease of the numbers employed in any given manner. Even these changes can have little effect in the ordinary case, where the population is that of almost the middle of the period dealt with. And although, for the reasons stated on page v, the risk had to be taken on the present occasion of foregoing this advantage, it may fairly be claimed that this risk has been minimized by elimination of industry from the occupational tabulation employed. For the economic influences in question affect industry far more readily than occupation.

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* *See* Appendix A.

The fluctuating fortunes of industry may determine the employment of carpenters, reducing it in some directions and increasing it in others, during any given period, but a carpenter tends to remain a carpenter, changing his industry much more readily than his occupation.

But a more important source of discrepancy between the census and registration figures collated in the tables is probably to be found, not in economic, but in health considerations. The reader must be reminded, as in previous reports of this series, that the weakly puddler or blacksmith may be forced to adopt a less strenuous occupation before his death. If so the occupation at death (the last occupation before work ceased) may differ from that at census if change of occupation has occurred shortly after the census, and death shortly after the change, liability to this being increased for 1921–23 by the unsymmetrical position of the census date. But even when the death corresponds with the occupational return at census the same fallacy may apply in only slightly less degree. For the former puddler may be obliged by bronchitis, skin cancer, or other chronic disease incidental to his calling (Tables D and F) to become a costermonger for years before his death, in which case the death corresponds with the census return, although really pertaining by origin to another occupation. The only difference in this case is the transfer of one life from puddlers to costermongers in correspondence with the death, but at most ages this goes a very short way towards compensating for the death transfer. This type of error must evidently tend towards understatement in some degree of the mortality of strenuous occupations, and corresponding overstatement of those open to men of impaired physique, but no measure of the extent of this tendency can be applied.

Two further instances of presumable want of correspondence between census and registration data, unconnected with the influence of ill-health on occupation, and each, like it, of general application, are discussed in connexion with the low mortality returned for the "never occupied" in old age (Appendix A, page 118) and with the low rates recorded for foremen in various callings and other occupational groupings implying leadership status (page lv). Besides these general instances there are doubtless many others applying particularly to certain occupations, but under our present system of national records no means of avoiding this difficulty has ever suggested itself. It would disappear if the records of life and death could be kept together for individuals, as in family genealogies, stud books, etc., but so long as they consist of mere records of innominate numbers, in which no one single event can be related to any other, the elimination of discrepancies of this type will probably remain impossible.

No attempt is made in this report to deal with the occupational mortality of females. This omission is due to reasons which have been discussed in previous reports of this series, notably that for 1900–02, pp. cxxii–v. Briefly, occupation of deceased females is very imperfectly stated in the death registers, the proportion for whom any mention of occupation is made being far below that for the living as enumerated at the census. In view of the intermittent and transitory character of much female occupation it may be doubted whether this difficulty can ever be overcome, but it does not follow that information as to the effect of occupation upon female mortality is unobtainable.

It will be found from the following pages that the effect of occupation upon male mortality is probably on the whole more indirect than direct—that mortality is influenced more by the conditions of life implied by various occupations than by the direct occupational risks entailed. The figures for males do not permit of differentiation between the two types of influence, as both are at work in every case, so no definite proof can be adduced of this suggestion, which merely represents an impression created by study of the facts dealt with. But from the deaths of females another set of data might be obtained which would serve to distinguish the two types of occupational influence, being entirely dependent upon the indirect. In 1921 the occupations of 6,878,325 married males between 20 and 65 years of age were tabulated, of whom 6,423,267, or 93 per cent. (Census, 1921, Dependency, Orphanhood and Fertility, Table 6), were enumerated on the same schedules as their wives. It would therefore be possible to tabulate the mortality of 6–7 million married women according to the occupations of their husbands. If this were done, we should, for the first time, obtain a measure of the indirect effect (which, in the case of females at all events, is almost certainly of chief importance) of occupation upon mortality. This would not only be of importance for females, but would provide a means of roughly differentiating between the two types of occupational influence upon males. For no trade could longer be regarded as directly prejudicial to health if it were found to entail as much excess risk for the wife as for the husband. In such a case excess mortality would evidently be in the main attributable to the social conditions implied. These, indeed, might well affect the wife more than the husband, but at least we should for the first time have a rough measure of the two types of influence, of which it seems likely that the direct has attracted in the past more than its due share of attention.

SOCIAL AND OCCUPATIONAL DISTRIBUTION OF MORTALITY FROM VARIOUS CAUSES.

The first of these reports to deal with the distribution of various causes of death by social class was that for 1910–12, but it only presented the facts, without discussing or comparing them. A paper published in *Biometrika* for December 1923 attempted this task, and may be used for comparing the results obtained by the social class distinctions of the 1911 and of the 1921 censuses. The basis in each case is purely occupational in intention. In the present report every occupation distinguished in the census has been assigned to one of five social classes, these assignments being shown in Table A. For 1910–12 the same five classes were used, but in addition three groups, two, miners and textile workers, largely of industrial type, the third being agricultural labourers, which are now merged with the five great classes, were separately dealt with. The 1911 classification did not distinguish the occupations carried on in mines and textile factories sufficiently to permit their assignment to social groups, but the definitely occupational basis of classification in 1921 (*see* General Report, Census, 1921, pages 86–88) has provided the means for their analysis by social class, as indicated in Table A; and agricultural labourers have been assigned to Class IV (that consisting partly of skilled and partly of unskilled workers) so as to make the grouping into five great classes complete for the whole occupied and retired population.

The improvement effected by genuinely occupational tabulation is not limited to the fusion of these three groups with the general population. It has also provided much better means of assigning individuals to their appropriate class. In 1911 many "occupational" headings of an industrial type included members of all social classes, from employers to general labourers, and assignment could only be made to the social class thought most appropriate for the average member of a very diverse group. Occupational tabulation in 1921 has got over this difficulty, and it is no longer necessary to assign the head of a tinplate, etc., works to the same social class as his labourers. The assignments in Table A, made in consultation with the Ministry of Labour, are of course open to criticism, but they do imply at least that the social class of individuals has been assessed in accordance with the nature of their individual employment, which was far from being the case in 1911. The effect should be to increase contrast, decreased before by wrong assignment of individuals, but observation of this result is obscured by the merging with the remainder of the three groups previously kept apart. The correlation, at all events, of mortality with assigned social class is now closer than it was in 1910–12. Standardized mortality, all causes, for ages 25–65 in 1910–12 and 20–65 in 1921–23, has compared as follows for Classes I–V at the two periods, the class rates being stated per cent. of that for all the occupied and retired (*see* Diag. 2):—

—	I.	II.	III.	IV.	V.
1910–12 ...	88	94	96	93	142
1921–23 ...	81·2	94·2	95·1	100·7	125·8

On the present grading mortality increases regularly from Class I to Class V, but the differences are greatest, as might be expected, towards each end of the scale. It is here alone that luxury and misery have to be taken account of, and differences in circumstance, both within Classes I and V and between them and adjoining classes, must be far greater than at other parts of the scale.

The greater advantage shown for Class I in the present report is largely due to greater restriction of its contents, clerks, for instance, having been assigned here in 1911 but to Class II in 1921. The result has been to cut down Class I to quite small proportions, but the object in view was not equal distribution of the numbers dealt with, but distinction of conditions of life; and the numbers who can be assigned, on an occupational basis, to the "comfortable classes," remain quite small even with the new tabulation. The proportions of the numbers stated for the classes in Table A, per cent. of that for all occupied and retired males, are as follows:—

All Classes.	I.	II.	III.	IV.	V.
100	2·33	20·35	43·47	20·45	13·40

So we see that for the 84¼ per cent. of the population comprised in Classes II–IV, the class variation of mortality is almost negligible—merely from 94·2 to 100·7 per cent. of average. It is only at the ends of the scale that the social factor is of much account. This, of course, is in accordance with the usual features of distribution of phenomena in general, extremes such as can seriously affect mortality being rare.

The relative improvement shown under the new classification for Class I applies also to Class V, the excess of its mortality (over average) having fallen from 42 to 25·8 per cent. for 1921–23. This is largely due to avoidance of the former inflation, discussed in the report for 1910–12, of the mortality of general and undefined labourers (*see* page xcv), who now form 47 per cent. of Class V at the ages dealt with, 20–65 (Table A). Were it not for this the contrast in mortality between Classes I and V would be seen to be much greater in 1921–23 than in 1910–12, as it ought to be, in consequence of better differentiation of the classes by means of the new occupational classification. This can be appreciated by noting the increase in contrast between Classes I and IV (88–93 in 1910–12, and 81·2–100·7 in 1921–23).

The numbers living at various ages and deaths and death-rates at the same ages from various causes are stated for these five classes on pages 3–5. From the years of life (population x 3) there stated the age distributions of the five populations may be seen to compare as follows :—

TABLE 1.

Age Distribution in Social Classes. Number living in each Class at each Age Group per thousand at all Ages.

Age.	All occupied and retired civilians.	Class I.	Class II.	Class III.	Class IV.	Class V.
16—	105	48	62	106	145	113
20—	114	87	86	121	131	109
25—	213	178	202	233	206	189
35—	206	214	223	212	185	191
45—	177	209	202	167	162	190
55—	113	154	134	100	107	130
65—	36	49	42	30	34	45
70—	36	61	49	31	30	33
All ages ...	1,000	1,000	1,000	1,000	1,000	1,000

It will be noticed that the largest proportions of young men (16–25) are found in Class IV, which, being intermediate between skilled and unskilled, doubtless includes many youths who later qualify for inclusion amongst the skilled workers (Class III). The largest proportion at each of the three highest age groups, on the other hand, (ages over 55) is returned by Class I, probably in the main because of greater longevity (Diags. 1 and 2), but possibly also to some extent for a similar reason to that for the early life excesses in Class IV—that added years give increased opportunity of advancement. During the middle period of life, 25–55, the maximum proportion moves steadily from its early life position with Class IV to its later life position with Class I, being with Class III at 25–35 and II at 35–45. The proportions for Classes I and II are below the general average under 35, and above it over that age—a feature almost exactly reversed by Class III. Class IV proportions are below average at every age above the first two, at which they are highest of all. Class V is above average chiefly in later life, 45–70, this feature presumably representing descent, as the high proportions at the same ages for Class I represent, to some extent, ascent of the social ladder. The Class V proportion at each age over 45 is much the highest for the three "working" classes (III-V). The gradual ageing of the population from Class V to Class I might be expressed by mean ages, but the absence of detail at the higher ages (over 70) would reduce the value of such averages (page xi). The general trend is sufficiently expressed by the fact that at all ages under 35 Class I proportions are lower, and at all ages over 35 higher, than those for Class V. Prosperity on the whole makes for longevity, though certain pitfalls which it provides for the imprudent will be dealt with later.

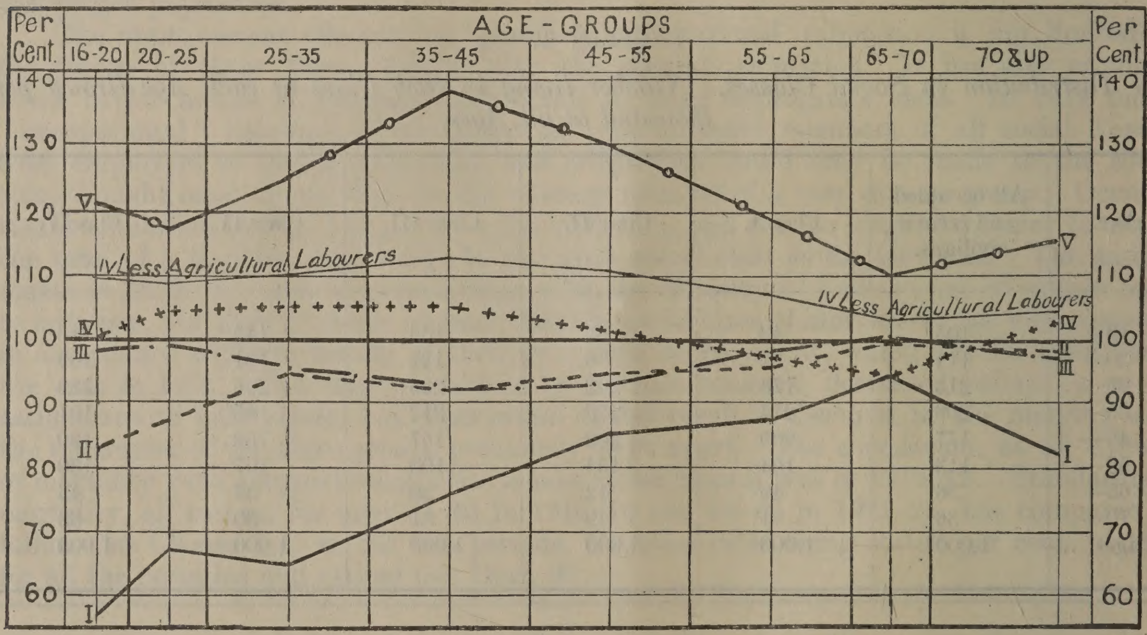
The age group death-rates of the five classes are compared, for the various causes dealt with, in Table G. As the rates themselves are to be found on pages 3–5 only their ratios to those for all classes (all occupied and retired civilian males) taken as 100 are shown in this table, but in certain cases, where for some reason it has appeared desirable to make the comparison for small mortalities, rates per million have been employed in place of the rates per 100,000 on pages 3–5, in order to allow for small differences. But as such differences must be of doubtful significance comparison of very small mortalities has as a rule been omitted altogether, that for cerebral hæmorrhage, *e.g.*, being made only for ages over 25, and that for diseases of the prostate for ages over 45.

Use has also been made of this table to display similar comparisons for the mortality of the "never occupied" (Appendix A, page 118), whose C.M.F.s will be found in Table 2. The C.M.F.s for the social classes are recorded in Table C, and the ratio for each class to the general average in Table D.

In these tables, and in the corresponding diagram (Diag. 3) the chief causes of death are distinguished and compared, but before considering them the social distribution of mortality in general at various ages may be dealt with. This is represented in Diag. 1, derived from Table B.

DIAGRAM 1. SOCIAL DISTRIBUTION OF MORTALITY (ALL CAUSES) AT VARIOUS AGES.

MORTALITY AT EACH AGE OF THE SOCIAL CLASSES COMPARED, PER CENT. OF THAT OF ALL OCCUPIED AND RETIRED MALES AT THE SAME AGE.



This diagram shows that the difference between class mortalities, and especially the advantage of Class I, is greatest in early adult life, and tends on the whole to decrease thereafter. The handicap of Class V is greatest in middle life, 35–45, when the influence of adverse occupational conditions is presumably at a maximum. These conditions appear to have some selective influence in eliminating the unfit, for if they are survived in middle life the relative chance of survival increases later on. This is very noticeable in the case of certain unhealthy occupations, such as that of barman (page 87) and costermonger (page 74). The diagram brings out very clearly the close approximation, at all stages of life, of mortality for the great bulk of the population, comprised in Classes II-IV.

The comparatively low rates for Class IV at ages over 45, especially at 65–70, when its rate is less than that for Class I (pages 3 and 4), are due to the inclusion in Class IV of agricultural labourers, whose low mortality is proportionally lowest between 35 and 65 (Table B). The rates for Class IV, apart from agricultural labourers, exceed the average at all ages, their ratios per cent. of those of all occupied and retired being:—16–110; 20–109; 25–110; 35–113; 45–111; 55–107; 65–103; and 70–104. These ratios, plotted in Diag. 1, yield a curve much closer to that of Class V both in position and shape than that for the complete Class IV. There is the same maximum at 35–45 as for Class V, and in fact the curve for Class IV without its agricultural labourers resembles a much mitigated replica of that for Class V. It is inevitable that, dealing with so highly urbanized a population as that of England and Wales, the inclusion of a large block of agriculturists in any one of five social classes should somewhat disturb the sequence of the gradation, which otherwise applies so predominantly to town dwellers, but the simplicity of a scheme complete in five groups will probably be held more than to compensate for this disturbance.

The increased divergence of the rates for Classes I and V after age 70 is passed, in contrast with their previous long continued convergence with increasing age, is somewhat surprising. Probably this is due very largely to the overstatement of the mortality of occupied men at these ages to which attention is drawn in Table *a* of Appendix A. It is likely that overstatement due to faulty filling in of the census schedule should be at its maximum for the less prosperous and less educated classes.

But while this table shows that an average overstatement for the occupied and retired of about 22 per cent. arises in this way at this time of life, another factor, of comparable if probably of smaller magnitude, and tending to further differential overstatement of the rates shown at 70– for the upper social ranks, has also to be considered. It may be presumed that, as a result of lower Class I mortality, the proportion of men entering this age group who survive to extreme old age is much higher for Class I than Class V.

The lower the mortality of the population concerned the larger will be the proportion, in so wide a group as 70 and over, of very old people, with their correspondingly high death-rates. This alone may suffice to make a population of lower mortality at each age over 70 appear as of higher mortality when all these ages are massed together. This may be seen from the following comparison for the North and South of England as defined in the Statistical Review (Part I, Medical Table 14, page 62, 1926). Mortality is higher in the North (in the proportion 1,205 : 918, or 1,000 : 762, in 1923—Statistical Review, Text, Table XXIII, page 32). But if the two populations as enumerated in 1921 had each experienced the average mortality of the whole country in that year their massed death-rates in later life would have compared as follows :—

Mortality at all ages over those specified :—

	Males.		Females.		Both Sexes.	
	North.	South.	North.	South.	North.	South.
65	1,000	1,089	1,000	1,113	1,000	1,103
70	1,000	1,063	1,000	1,082	1,000	1,074
75	1,000	1,040	1,000	1,062	1,000	1,053
80	1,000	1,026	1,000	1,040	1,000	1,034
85	1,000	1,010	1,000	1,021	1,000	1,016
90	1,000	1,001	1,000	1,007	1,000	1,003
95	1,000	1,000	1,000	1,000	1,000	1,000

As 95 and over is treated as a single age group there is naturally no opportunity here for the consideration in question to manifest itself, but at all the earlier ages the effect of greater survivorship in the South is shown by excess in the proportion of the older persons within the group, whose higher mortality would, if the death-rate at each age were equal in any year, have the effect of making the massed rate appear to be higher for the generally longer lived population. The southern excess in the proportions at the higher ages is shown in the following comparison, showing the numbers in the North and South at each age over 65 per million at all ages over 65.

	Males.		Females.		Both Sexes.	
	North.	South.	North.	South.	North.	South.
65—	493,390	439,659	445,042	390,838	466,082	410,871
70—	287,346	286,419	289,201	286,732	288,394	286,604
75—	145,872	169,927	167,264	183,780	157,954	178,095
80—	55,861	74,400	72,035	92,983	64,997	85,358
85—	14,552	23,801	21,568	35,104	18,515	30,466
90—	2,557	4,991	4,215	8,839	3,493	7,260
95—	422	803	675	1,724	565	1,346
65—	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000

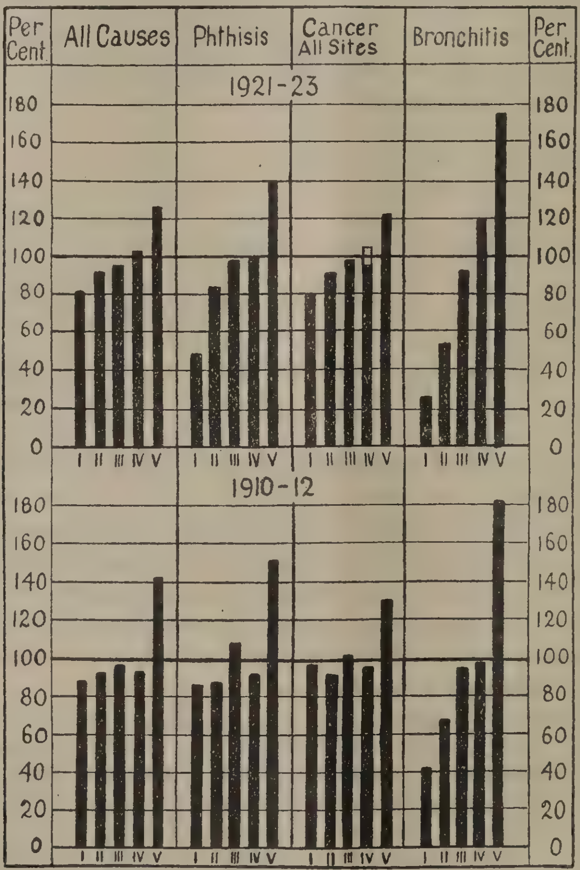
As age advances and the survivors die off the proportion within each massed group of those at ages with mortality above the group average declines, and on this account the feature under consideration gradually lessens. But the importance of a factor which at 70– can load the scales against the healthier South to the extent of over 6 per cent. is not to be neglected, for a very large proportion of the differences between the occupations whose mortality at 70– is compared in Table B must be far greater than that between the whole populations of the north and south of England. Unfortunately in their case the tabulation of deaths does not admit of the matter being tested.

The entries under 70– in Table B are consequently very unsafe guides to the mortality experienced, as a high rate may signify either high mortality or high average age of the population in the group, or both. But as the numbers of men retired from each occupation (Occupation Tables, Census 1921, Table 5), and the deaths in the occupations, have been tabulated for ages 70– in a single group, there is no alternative to the entries under this heading in Table B, and all that can be done is to give this warning of their frequently misleading nature.

The omission of these higher ages from those (20–65) furnishing the data on which is based the summarized statement (C.M.F.) of occupational mortality does not imply that their importance in this connexion is negligible. Although this omission, which has been a constant feature of these reports concurrently with tabulation for the higher ages, must still be regarded as desirable for reasons discussed in Appendix A, the after effects of occupation upon mortality occurring after work has ceased possess an interest of their own which makes it desirable to tabulate the records at these ages also. Various non-official investigations based on the material presented for these ages in earlier supplements give evidence of this, and recent extensions of industrial insurance have increased the demand for this information.

DIAGRAM 2. SOCIAL DISTRIBUTION OF MORTALITY FROM VARIOUS CAUSES, 1921–23 AND 1910–12.

COMPARATIVE MORTALITY FIGURE FOR EACH SOCIAL CLASS FROM EACH CAUSE PER CENT. OF THE CORRESPONDING C.M.F. FOR ALL OCCUPIED AND RETIRED MALES.



NOTE: Cancer all sites—The outlined addition to the solid column for Class IV represents increase of mortality ratio for that class resulting from exclusion from it of agricultural labourers (see page xiii).

Diag. 2 compares the mortalities of the five social classes at all ages (20–65) for various causes, as Diag. 1 compares them for all causes at various ages. It also makes the corresponding comparison in each case for 1910–12 in order to compare the effects of the social gradation in use then and now. In this comparison, Classes I-V in 1910–12 are treated as equivalent to Classes I–V now, but whereas they now include the whole occupied and retired civilian population, they did not in 1910–12 include three large groups, textile workers, miners, and agricultural labourers, which were then excluded from the graduated scale (page viii). The differential social distribution of mortality, both from all causes and from each of the three great causes dealt with in the diagram, phthisis cancer and bronchitis, is much more clearly shown by the returns as socially grouped for 1921–23 than for 1910–12, a statement applying also to other causes. The percentages of the general average plotted in Diag. 2 are as follows, those for 1910–12 being derived from the Biometrika article referred to on page viii and those for 1921–23 from Table D.

In each case the figures quoted represent the percentage ratio of the standardized mortality (C.M.F.) for the social class to that for all occupied and retired males.

The increase in correlation of mortality and social status as shown for 1921–23 in comparison with the records for 1910–12 is very obvious. The rates for total mortality now show increase at every stage from the Class I minimum to the Class V maximum, whereas the earlier social classification brought out little difference between Classes I and IV, the chief feature being great excess for Class V. Very much the same statements may be made for phthisis, and for bronchitis the regularity of gradation, considerable in 1910–12, is greatly increased in 1921–23, while its range is also increased. The cancer figures for 1910–12 show no significant variation with class as between Classes I and IV, but those for 1921–23 increase steadily from Class I to Class V, except for a fall for the Class IV rate below that of Class III, which is entirely due to inclusion of agricultural labourers with Class IV. Excluding them the Class IV cancer ratio becomes 104·2, and the increase accordingly is uninterrupted, as indicated by the open extension of the 1921–23 Class IV cancer column in Diag. 2.

——	Social Class.				
	I.	II.	III.	IV.	V.
All Causes—1910–12 ...	88	94	96	93	142
1921–23 ...	81·2	94·2	95·1	100·7	125·8
Phthisis—1910–12	86	87	109	92	152
1921–23	48·9	84·4	97·7	100·4	140·1
Cancer—1910–12	99	91	101	96	131
1921–23	79·8	92·0	99·0	96·4	122·9
Bronchitis—1910–12 ...	41	68	95	98	184
1921–23 ...	25·6	54·8	93·7	119·8	176·2

Both bronchitis and cancer of the sites grouped as "exposed" in Diag. 5 display remarkably regular grading in 1921–23. There is a tendency for all the causes dealt with in Diag. 2 to approximation between Classes III and IV, but as this has been shown in the case of its maximum extent in Diag. 2, as well as in Diag. 1, to be due to a recognizable and natural cause, it may be assumed that in other cases also the same explanation applies. This cannot, however, explain the same feature (for all causes, phthisis and cancer) in 1910–12, when agricultural labourers were excluded from the five graded classes. But at this period the material for social grading provided by occupational classification was, as explained, inadequate. It is the results obtained from the improved information for 1921–23 which have to be considered, and for these a large measure of success may be claimed on the strength of the regularity of gradation displayed in Diags. 1–3 and 5. If such differences did not exist in fact, it is impossible to conceive of their accidental fabrication in any attempt at social grading, but the records for 1910–12 show how easy it is for error in such grading to obscure differences actually existing. On this line of reasoning regularity of mortality gradation for diseases sensitive to social conditions may be accepted as a test of success in social classification, and if so, the present scheme is amply vindicated by the record of many diseases in Diagram 3.

The incidence of various forms of mortality upon the social classes is compared, with due allowance for differences of age, in Tables 2 and 3. These tables deal with the five social classes and, to complete the tale, with their total, all occupied and retired males, with those for whom no occupation is returned on the census schedules, and with all males of the ages taken into account in working the Comparative Mortality Figure, 20–65. At these ages it will be seen (Appendix A, page 118) that the rates for the "never occupied" are much less seriously in error than later in life, and Tables 2 and 3 give an idea of the diseases giving rise to invalidism which prevents occupation.

But the indications of these tables on this point must be studied in the light of Table G, which introduces distinction of age—a vital matter in this connexion. From Table 2 we may suppose that the excess mortality of the never occupied is chiefly contributed to by nervous diseases (other than cerebral hæmorrhage), accident, respiratory tuberculosis, other tuberculosis, and suicide, in the order named; while, on the other hand, causes chiefly affecting later life—cancer, cerebral hæmorrhage, heart disease, respiratory disease and prostatic disease—are returned as of lower than average mortality for the never occupied. This is not due to greater survival to the ages chiefly subject to these forms of mortality by those healthy enough to enter occupations, for the effect of this is eliminated by the process of standardization, and the numbers dealt with, even for the never occupied at the higher ages, are sufficient to yield reliable rates.

TABLE 2.

Standardized Mortality (C.M.F.) of the Five Social Classes, of All Occupied and Retired Civilian Males, of the Never Occupied and of All Males, from All Causes and from certain Causes, at ages 20–65 Years—1921–23.

—	Social Class.					Occupied and Retired Civilians.	Never Occupied.	All Males.
	I.	II.	III.	IV.	V.			
All causes	812	942	951	1,007	1,258	1,000	1,213	1,013
Influenza	30·4	34·1	34·0	40·9	43·0	36·4	45·1	36·5
Respiratory tuberculosis	80·0	138·0	159·8	164·2	229·0	163·5	211·3	168·4
Other tuberculosis	10·1	13·6	13·6	13·5	14·8	13·8	44·3	14·3
Syphilis etc.—	19·7	24·7	26·1	26·0	37·9	27·1	45·7	28·9
Syphilis	1·4	2·4	2·3	3·1	5·2	2·8	4·3	2·9
Tabes dorsalis	4·2	5·4	4·6	4·2	6·0	4·9	6·4	5·1
General paralysis of insane ...	9·6	11·0	12·7	11·9	18·3	13·3	25·2	14·0
Aneurysm	4·1	5·8	6·1	6·9	8·2	6·3	9·8	7·1
Cancer, all sites*	102·5	118·1	127·1	123·8	157·8	128·4	69·2	127·8
Chronic rheumatism etc.; gout ...	2·1	3·0	3·5	3·3	3·9	3·3	2·8	3·3
Diabetes	15·2	17·7	11·2	9·2	8·1	12·2	13·1	12·1
Alcoholism	1·2	2·9	0·5	0·8	0·8	1·0	4·5	1·0
Cerebral hæmorrhage, etc.	39·7	46·2	44·7	42·3	48·5	44·9	34·4	45·4
Other diseases of nervous system ...	26·0	30·4	29·7	31·2	40·3	31·2	163·2	34·1
Valvular disease of heart	36·1	57·2	61·1	67·3	80·9	63·4	47·6	63·9
Other heart disease	69·7	71·6	59·0	60·4	75·6	65·6	55·0	64·9
Arterio-sclerosis	31·9	22·3	19·1	17·4	23·5	20·5	18·1	20·5
Other diseases of circulatory system	3·9	3·1	2·4	2·8	2·5	3·1	3·5	3·0
Bronchitis	12·7	27·2	46·5	59·4	87·4	49·6	28·4	49·0
Pneumonia	70·5	71·6	76·2	91·1	127·8	85·1	75·9	85·2
Chronic interstitial pneumonia ...	1·1	1·0	1·7	1·3	1·2	1·3	3·4	1·3
Other diseases of respiratory system	11·9	15·2	14·8	16·4	20·1	15·7	17·6	15·8
Ulcer of stomach	7·3	8·9	10·2	11·0	13·3	10·2	7·6	10·4
Ulcer of duodenum	7·0	6·4	5·1	5·6	6·6	5·6	6·1	6·0
Appendicitis	15·1	12·7	7·9	7·5	6·2	8·9	7·3	8·9
Hernia	1·9	2·5	3·1	4·0	4·5	3·4	2·4	3·6
Intestinal obstruction	6·4	5·5	4·4	5·4	6·2	5·2	7·0	5·4
Cirrhosis of liver	15·6	17·9	6·3	7·1	8·3	9·6	12·3	9·8
Other diseases of digestive system	22·5	19·1	15·9	15·3	18·7	16·7	25·1	17·3
Acute nephritis	2·9	4·8	4·5	3·9	4·8	4·3	2·9	4·1
Chronic nephritis	34·3	38·9	33·4	31·4	36·7	34·5	36·9	35·1
Diseases of the prostate	4·0	4·4	3·8	2·9	3·2	3·7	2·3	3·6
Other genito-urinary diseases ...	8·2	7·8	7·5	8·8	11·4	8·3	8·9	8·6
Old age	0·5	0·9	1·5	1·4	3·3	1·7	0·5	1·5
Suicide	28·1	31·0	22·0	21·6	23·7	24·3	37·7	24·8
Accident	39·9	34·5	46·8	63·8	59·2	49·3	97·2	50·3
Other causes...	54·0	48·9	48·0	45·9	49·0	48·0	75·7	48·0

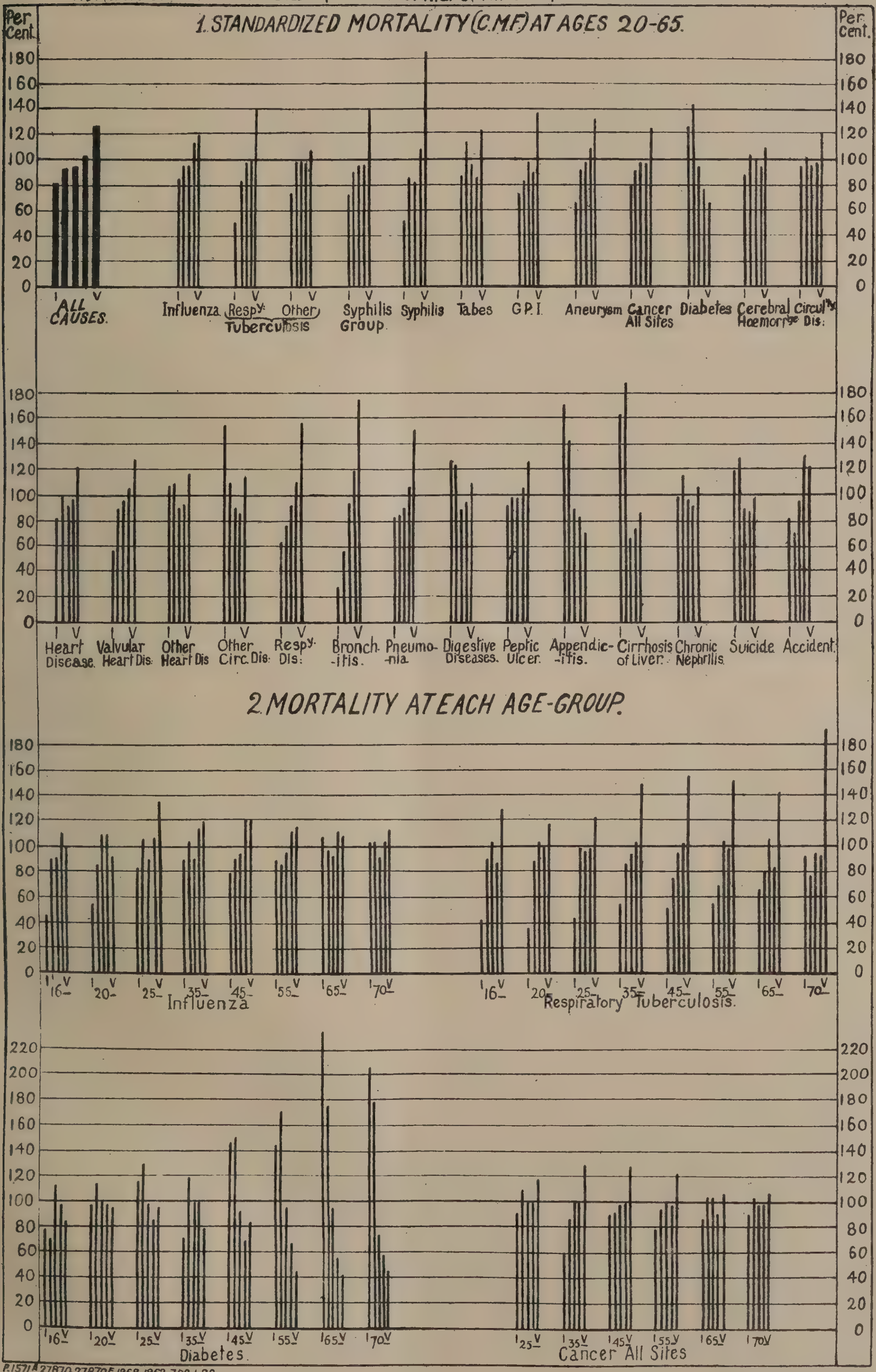
* For the comparative mortality figures for Cancer of different sites, see Table 4 on page xxiii.

It may, however, be due to these diseases of later life not invaliding men sufficiently young to qualify them for inclusion with the never occupied. Such mortality from these diseases as is experienced by the never occupied may therefore be looked upon as having no connexion with their lack of occupational record, and as it occurs at ages at which the numbers of the never occupied are grossly overstated, their recorded mortality from these causes is naturally low.

Table G shows that whereas total mortality is returned as in excess for the never occupied at all ages up to 55, the corresponding excess for cancer mortality ceases after 35. This may be an effect of the cause suggested above for the low C.M.F.s of the never

DIAGRAM 3. SOCIAL DISTRIBUTION OF MORTALITY FROM VARIOUS CAUSES

Mortality of each Social Class per cent of that of All Occupied and Retired Males.



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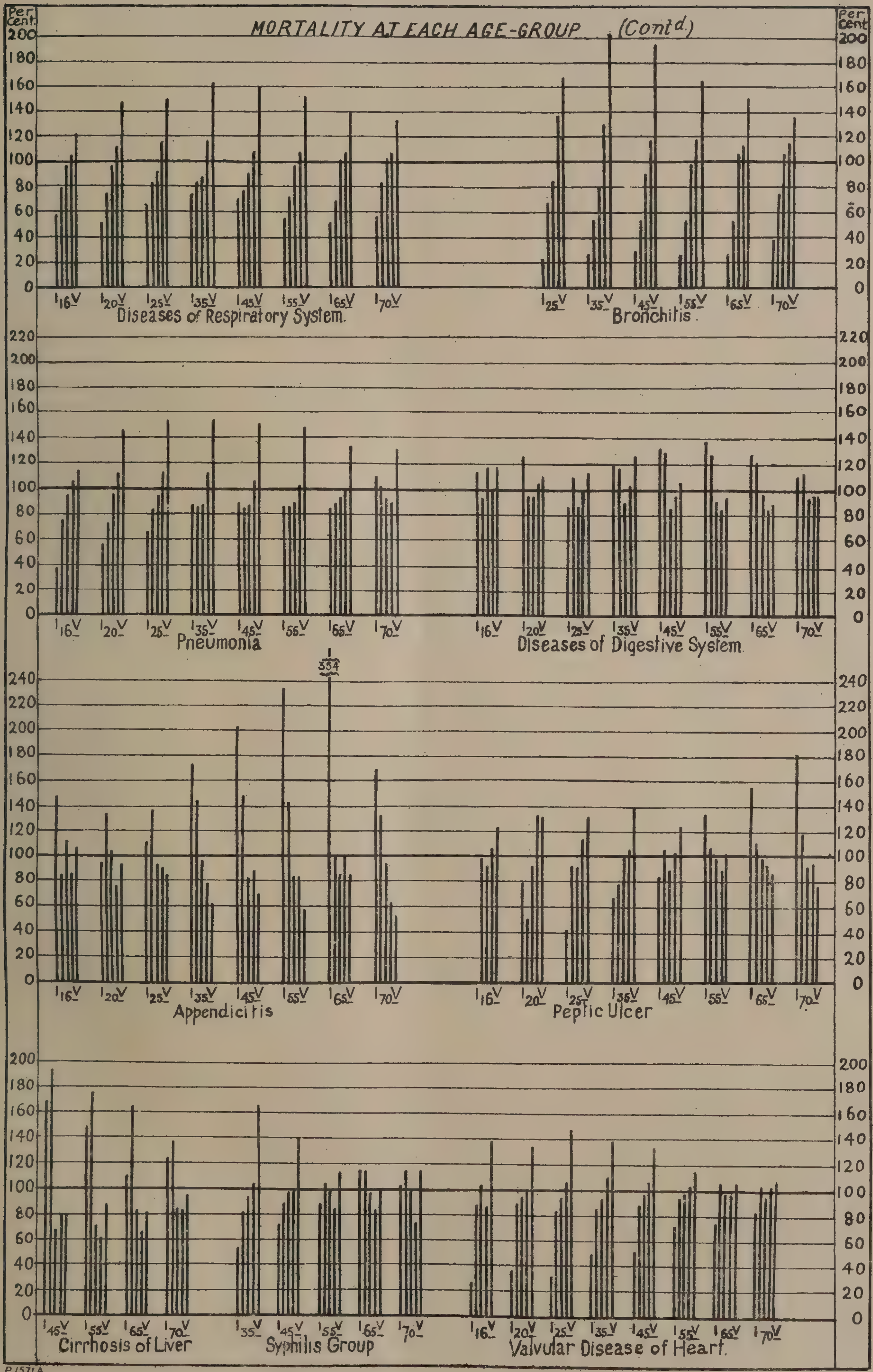

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TABLE 3.

Proportion of Standardized Mortality (C.M.F.) of the Five Social Classes, of All Occupied and Retired Civilian Males, of the Never Occupied, and of All Males from certain Causes to that of All Causes taken as 1,000.

—	Social Class.					Occupied and Retired Civilians.	Never Occupied.	All Males.
	I.	II.	III.	IV.	V.			
All causes	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Influenza	37	36	36	41	34	36	37	36
Respiratory tuberculosis	99	146	168	163	182	164	174	166
Other tuberculosis	12	14	14	13	12	14	37	14
Syphilis, etc.—	24	27	26	26	31	27	38	29
Syphilis	2	3	2	3	4	3	4	3
Tabes dorsalis	5	6	5	4	5	5	5	5
General paralysis of insane ...	12	12	13	12	15	13	21	14
Aneurysm	5	6	6	7	7	6	8	7
Cancer, all sites	126	125	134	123	125	128	57	126
Chronic rheumatism etc.; gout ...	3	3	4	3	3	3	2	3
Diabetes	19	19	12	9	6	12	11	12
Alcoholism	1	3	1	1	1	1	4	1
Cerebral hæmorrhage, etc.	49	49	47	42	39	45	28	45
Other diseases of nervous system ...	32	32	31	31	32	31	135	34
Valvular disease of heart	44	61	64	67	64	63	39	63
Other heart disease	86	76	62	60	60	66	45	64
Arterio sclerosis	39	24	20	17	19	21	15	20
Other diseases of circulatory system	5	3	3	3	2	3	3	3
Bronchitis	16	29	49	59	69	50	23	48
Pneumonia	87	76	80	90	102	85	63	84
Chronic interstitial pneumonia ...	1	1	2	1	1	1	3	1
Other diseases of respiratory system	15	16	16	16	16	16	15	16
Ulcer of stomach	9	9	11	11	11	10	6	10
Ulcer of duodenum	9	7	5	6	5	6	5	6
Appendicitis	19	13	8	7	5	9	6	9
Hernia	2	3	3	4	4	3	2	4
Intestinal obstruction	8	6	5	5	5	5	6	5
Cirrhosis of liver	19	19	7	7	7	10	10	10
Other diseases of digestive system	28	20	17	15	15	17	21	17
Acute nephritis	4	5	5	4	4	4	2	4
Chronic nephritis	42	41	35	31	29	35	30	35
Diseases of the prostate	5	5	4	3	3	4	2	4
Other genito-urinary diseases ...	10	8	8	9	9	8	7	8
Old age	1	1	2	1	3	2	0	1
Suicide	35	33	23	21	19	24	31	24
Accident	49	37	49	63	47	49	80	50
Other causes...	67	52	50	46	39	48	62	47

occupied in Table 2 from the diseases of later life. Only if attacked, as by sarcoma, early in life, is a man likely to die from cancer after being throughout his life prevented by it from taking up any occupation. The man attacked by cancer at the usual age of onset has followed an occupation before his attack.

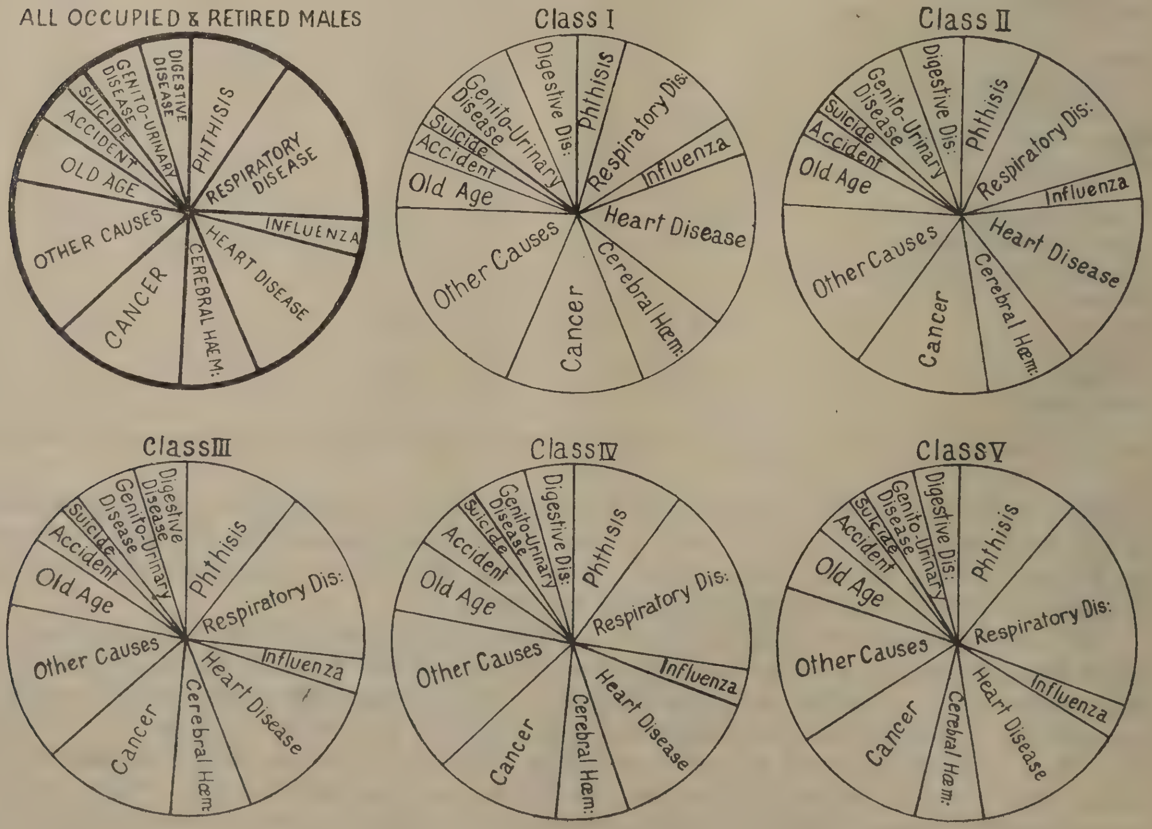
The same table shows that with few exceptions all causes of death are returned, as might be expected, as in large excess for the never occupied in early manhood, but that this excess rapidly dwindles to an absurd deficit (due presumably to omission of the former occupations of retired men on the census schedules, *see* Appendix A, page 118) in later life. But it is not apparent why this dwindling should progress so much more rapidly for cancer than for other causes. So far as it is due to over-statement of the numbers of the never occupied, cancer should be affected similarly to other causes, so presumably it is the deaths which are responsible for this peculiarity of cancer mortality distribution These may be more limited (for the never occupied) to early life in the case of cancer than of other diseases for the reason suggested above—that instances of very prolonged invalidism from cancer are comparatively rare. But the data for the never occupied are evidently so defective that there is little profit in speculation as to the causes of the peculiarities of their record in Table G.

Much the greatest excesses for the never occupied in this table are those for diseases of the nervous system at ages under 35. It is tempting to think of the lunatic population in this connexion, but so few of their deaths are allocated to insanity that lunacy cannot wholly account for the excess. Presumably much of it is genuine, chronic forms of nervous diseases first invaliding their victims and preventing occupation, and later causing death.

The degree in which each of the chief causes of death contributes to the total mortality of each social class is shown in Tables 2 and 3, and Table D shows the extent to which the standardized mortality of each class from certain causes exceeds or falls short of the general average. The most noteworthy of these ratios are expressed in graphic form by Diag. 3, the first portion of which, dealing with ages 20–65 jointly, is based on Table D. The remainder of the diagram, illustrating the social distribution at different ages of mortality from some of the principal causes of death, is derived from Table G. The features of this diagram will be considered in the following pages as the causes of death dealt with are discussed.

A similar comparison to that of Table 3, showing the share contributed by each cause of death dealt with to the total mortality of each social class, is made in Diag. 4. This, however, differs from Table 3 in making no allowance for differences in age constitution between the five classes, and in including all ages, whereas Table 3 is restricted to 20–65. It is based on the total deaths from each cause recorded on pages 2–5, as it is of interest to compare these as well as those at certain ages only. The low Class I phthisis ratio in Table 3, for instance, might conceivably apply to ages 20–65 only, but Diag. 4 shows that it holds good for the whole span of life. Phthisis and respiratory disease in general cause a far higher proportion of deaths among the poor than the well off, but the converse statement applies to disease of the digestive and genito-urinary systems. Diag. 4, however, merely summarizes the results of the cause distributions illustrated in detail in Diag. 3, which may now be considered *seriatim*.

DIAGRAM 4.—COMPARATIVE FREQUENCY OF VARIOUS CAUSES OF DEATH IN THE FIVE SOCIAL CLASSES—ALL AGES.



Distribution Cause by Cause.

Influenza.—Table D shows that this cause is returned as varying definitely, though not greatly, with social class. In proportion to the numbers living it is commonest, with an excess over average of 18 per cent., in Class V, but in proportion to total deaths, allowing for differences of age, it is least common (3·4 per cent. of all causes, Table 3) in this class. The range of variation, from 83·5 per cent. of average for Class I to 118·1 per cent. for Class V, for ages 20–65 jointly (Table D and Diag. 3), is very much greater in youth and early manhood (Table G and Diag. 3), while in old age, 65 and upwards, there is little class variation. The Class I minimum is especially marked at 16–20, when Class I mortality is but 45 per cent. of average, and the Class V maximum at 25–35, when mortality for this class reaches 133 per cent. of average. But the position is better described in Diag. 3 than it can be by any verbal repetition of the facts there depicted.

The occupational variation of mortality from this, as from other causes, can be studied in Tables C and D. It ranges from 6·2 for barristers to 106·7 for cutlery grinders—respectively 17·0 and 293·1 per cent. of the C.M.F. for all occupied and retired males, 36·4. The exceptionally low rate for barristers is largely due to the fact that of nine deaths at all ages only one occurred at 20–65, instead of the five to six (5½) required to accord with the experience of all occupied and retired males in regard to age distribution of influenza deaths.

It may be seen from Table D that on the whole the several occupations range themselves to a considerable extent in social class order. The only Class I occupation with an influenza ratio of more than 1,000 is medical practitioners (1,277), auctioneers (986) coming next. Plainly influenza is a very definite occupational risk for the doctor. The allied calling of dentistry, which does not involve exceptional exposure to influenza infection, occupies position 17 (*see* page liii) from this cause, with a ratio of 585, the doctors' position being 141 (Table F). The highest influenza rates are returned largely by occupations involving exposure to dust or other respiratory risk, the highest ratios in Table D being those for cutlery grinders (2,931), brass foundry furnacemen and labourers (2,212), cotton strippers and grinders (2,121), iron miners underground (2,085), file cutters (2,071) and slate masons (1,964). These six occupations include two, cutlery grinders and cotton strippers and grinders, holding almost similar positions for bronchitis, and two others of high bronchitis mortality, but the bronchitis rates for iron miners and slate masons are low.

The correlation between the influenza C.M.F.s of the occupation groups in Table C and their C.M.F.s for bronchitis and pneumonia, respectively, is as follows :—

Influenza and bronchitis .. .. $r = + \cdot 491 \pm \cdot 040$
Influenza and pneumonia .. .. $r = + \cdot 416 \pm \cdot 044$

In both cases, as also in those of other correlations quoted later, the 178 occupation groups of Tables C, D, and F have been reduced to the 164 numbered groups of pages 5–95 by exclusion of sub-divisions already included in a more comprehensive group, as cutlery grinders in grinders of metal, which would otherwise be taken account of twice. All correlations are based on the 164 C.M.F.s except in a few instances, noted as they occur, in which an outstanding rate had an inadequate basis of fact. Fairly high association between influenza and respiratory mortality is only natural, as influenza deaths are generally due to respiratory complications, so conditions lowering pulmonary resistance must increase both forms of mortality.

Respiratory Tuberculosis mortality varies greatly and regularly with social class, from 49 per cent. of average in Class I to 140 per cent. in Class V (Table D). This correlation with social circumstance is shared in even greater degree by bronchitis, but social variation for pneumonia is distinctly less than for phthisis, so phthisis varies socially to much the same extent as non-tuberculous respiratory disease as a whole (phthisis 489–1,401, respiratory disease 634–1,559). Phthisis is evidently a potent cause of invalidism, as evidenced by the extent of the excess of the rate for the never occupied in Table 2 over that for the occupied and retired. Mortality from other forms of tuberculosis, not of great importance at the ages (20–65) dealt with, varies less than, but in the same way as, the respiratory form (Diag. 3). Its average C.M.F. for all classes of 13·8 (Table 2) is significantly departed from only by Classes I (10·1) and V(14·8), the corresponding ratios being 732 and 1072.

The social distribution of phthisis mortality at different ages is displayed in Table G and Diag. 3. In middle life, 35–55, it increases regularly from Class I to Class V, but earlier and later in life the association with social status is not so great. In all but the last of the age periods dealt with, however, the rate is lowest for Class I, and in all eight it is highest for Class V. The Class I advantage is very pronounced in early life, and gradually decreases with increasing age, till at 70— it has almost disappeared. It is greatest of all at 20–25, when Class I mortality is little more than one-third of average. The disadvantage of Class V on the other hand, though considerable at all periods of life, increases with age to a maximum at 70—, when mortality for this class is almost double the general average, and for no other class as much as average. This is of interest in connexion with the suggestion sometimes made that the low ratio of tuberculosis to respiratory disease, especially bronchitis, in old age in this country, as compared with others, is due to ascription to bronchitis, etc., of deaths really due to tuberculosis. If this were an important factor one would expect to find it most in evidence (in the shape of low senile tuberculosis mortality) for Class V, not least. It may be noted that the social mortality ratio is reversed for Classes III and IV at five ages out of the eight. This must be partly because, as pointed out below, the highest rates of all are met with in some of the highly specialised Class III (skilled) occupations, and partly a consequence of the inclusion in Class IV of agricultural labourers, who form 21 per cent. of its membership, and whose phthisis C.M.F. ratio is only 588 (*see* page x).

The mortalities for separate occupations are very largely governed by their social circumstances. Thus the lowest ratios in Table D, apart from the two lowest of all—builders' foremen (221) and farm bailiffs and foremen (247), which are open to the suspicion attaching to other rates for foremen for the reasons discussed on page lv, are all for Class I occupations—barristers (247), ministers (258), bank officials (289), Anglican clergy (321), insurance officials (357). Next to these come farmers (Class II) (414), and then two other foremen groups, coal (431) and wood-working (435), followed by another Class I group, medical men (462). Other ratios of less than 500 per 1,000 are for railway signalmen (464), railway guards (468) and railway officials (479).

The occupations with highest phthisis mortality are chiefly to be found in Classes III and IV, rather than in Class V, even though mortality for the latter, taken as a whole, exceeds that for Class III by 43, and for Class IV by 40 per cent. This is partly because the number of occupational groups in Class V is small, only six of the 178 groups being wholly, and nine partially, composed of Class V occupations. Moreover, the social classes include the total occupied and retired civilian population, but the occupational groups 1–164 (pages 5–95) only 82 per cent. of it. But the chief reason seems to be that the most sharply differentiated occupational conditions are met with chiefly in skilled trades, which are assignable to Classes III or IV. Consequently the occupations most exposed to silica or other occupational phthisis risk belong to Classes III and IV, as shown by the following list of those with over three times average phthisis mortality, the social class and the mortality ratio (Table D) being given in each case : slate masons (III), 3,426 ; metal grinders (IV), 4,256, of whom grinders in the cutlery trade, 7,878 ; tin and copper miners (III and IV), 8,847, of whom underground workers (III), 12,607. The Class V occupations with highest phthisis mortality on the other hand—porters (1,799), dock labourers (1,903) and costermongers (2,289)—are carried on for the most part in the open air, and without exposure to any specifically deleterious agency. In their case it seems rather to be the social, and in the other (Classes III and IV) the occupational, circumstances which are responsible for excessive mortality, and the effect of the former is never so great as in a few exceptional instances that of the latter can be.

Correlation ratios have been calculated between the C.M.F.s (Table C) for phthisis and certain other causes—bronchitis, pneumonia, diabetes, and cirrhosis of the liver—of the 164 occupation groups. The omission of barristers reduces the number to 163 for cirrhosis of the liver. The results are as follows :—

Respiratory tuberculosis and bronchitis .. $r = +\cdot528 \pm \cdot038$
,, ,, pneumonia .. $r = +\cdot278 \pm \cdot049$
,, ,, cirrhosis of the liver $r = +\cdot059 \pm \cdot053$
,, ,, diabetes .. .. $r = +\cdot178 \pm \cdot051$

The association with bronchitis is evident on inspection of Table D or Table F, and will have to be noted repeatedly in dealing with causes of death in different occupation groups. To some extent, no doubt, it may be due to ascription to bronchitis of mortality for which tuberculosis is really responsible ; but apart from this, there can be little doubt that similar environmental conditions promote both mortalities. Each varies to an exceptional extent with social circumstance, the phthisis ratio rising, as already seen, from 489 for Class I to 1,401 for Class V, while the corresponding increase for bronchitis is still greater—from 256 to 1,762. But even apart from this, definitely occupational risk, often connected with exposure to silica, is frequently excessive for both causes, instances of this being cutlery grinders, tin and copper miners, potters, earthenware and china kiln and oven men, brass foundry furnacemen and labourers, brass finishers, and masons. Cases like those of slate masons, where phthisis is high and bronchitis low, and cotton strippers and grinders, where phthisis is low and bronchitis high, are rare. So as both forms of mortality are promoted by the same social and occupational circumstances, their association is naturally high.

The correlation with pneumonia, though much less, is still significant as compared with its probable error, notwithstanding the clinical observation that the two diseases are seldom met with in the same subject. This fact, of course, is not incompatible with their occupational association, since the individuals affected need not be the same. The association with cirrhosis of the liver was tested as an index to the influence of alcoholism as a cause of phthisis, cirrhosis being regarded for the reasons stated on page xlv as the best available index of alcoholism in occupations. It will be seen that no significant result was obtained.

Comparison with diabetes mortality might have been expected to yield a definitely negative instead of a doubtfully positive correlation, notwithstanding the tendency of the two diseases to association in individuals, in view of their opposite social distributions, the diabetes risk being greater for the more comfortably situated classes. But on examination it proves that this correlation is much affected by the records for a few occupations entailing excessive phthisis risk, notwithstanding evidence (high mortality from digestive disease, chronic nephritis, and cerebral hæmorrhage, as well as diabetes) of a very adequate food supply. For these occupations there seems to be a very definite appeal in the words, " let us eat and drink, for to-morrow we die." Tin and copper miners and metal grinders are the most outstanding examples of this conjunction of mortalities, and if they are omitted the 162 occupations remaining yield the result $r = -\cdot 102 \pm \cdot 052$. This is, of course, quite inconclusive, but the previous positive sign has become negative.

Syphilis and its consequences—*tabes dorsalis, general paralysis of the insane,* and *aneurysm*—appear to have the same social distribution, so far as mortality is concerned, as phthisis, but their special amenability to treatment must be borne in mind. Whatever the prevalence of these diseases, however, that portion—doubtless but a fraction of the whole—of the total mortality for which they are responsible which is returned upon death certificates, increases down the social scale from 72·7 per cent. of average in Class I to 139·9 in Class V. But how far this contrast is ascribable to difference in prevalence of the disease, how far to difference in effectiveness of treatment, and how far to varying degree of suppression of the facts on death certificates, it is very difficult to say.

Some light, however, may be thrown upon this matter by comparison of the mortalities from each of the four diseases separately which are grouped together, as syphilitic in nature, in Tables C and D. Suppression of the facts in certification is far less likely for general paralysis of the insane (G.P.I.) than for syphilis, for at least two reasons : (1) that recognition of the syphilitic implication of G.P.I. is so recent that it still entails much less difficulty than syphilis as a statement of diagnosis, and (2) that nearly all G.P.I. patients have to be admitted to asylums or other institutions before their death. Appendix B to Part I of the Registrar-General's Statistical Review for 1925 shows that of 6,565 deaths of males in England and Wales from this cause during 1921–25, 79 per cent. occurred in asylums, 11 per cent. in workhouses, hospitals and other institutions, and only 10 per cent. elsewhere—*i.e.*, for the most part in their own homes. So far, then, as syphilitic mortality in the wider sense is contributed to by G.P.I.—and this accounts for almost 50 per cent. of the deaths so classified—certification may be assumed, instead of being specially unreliable, to be specially good, being in the hands of institutional experts, who are not at all likely to substitute another diagnosis on the death certificate when the facts call for one of G.P.I.

The C.M.F.s for syphilis etc. of the five social classes are made up as follows :—

——	Occupied and Retired Civilians.	Class I.	Class II.	Class III.	Class IV.	Class V.
Syphilis	2·79	1·43	2·41	2·29	3·08	5·18
Tabes	4·88	4·22	5·44	4·61	4·19	5·96
G.P.I.	13·25	9·62	11·03	12·73	11·92	18·28
Aneurysm	6·27	4·05	5·80	6·12	6·90	8·21
Total (syphilis etc.)... ...	27·19	19·32	24·68	25·75	26·09	37·63

The totals for the whole syphilitic group obtained by aggregating the C.M.F.s for its ingredients differ in detail from those stated in Table C, obtained by dealing with this mortality as a whole ; but the differences are so slight that they may be neglected. It will be seen that the social distribution of these total syphilis rates closely resembles that of mortality from all causes (Diag. 3). There is little difference between Classes II to IV, but the rate for Class I is considerably less, and that for Class V very much greater, than for these. But the advantage held by Class I over Classes II–IV applies chiefly to syphilis so returned and aneurysm, while the Class V excess applies to all four constituents of the group (Diag. 3). Both syphilis and aneurysm show a general tendency to increase throughout the social scale from I to V, but with smaller differences for the central classes (II–IV) than at the extremes. But for G.P.I. the differences between Classes I–IV are comparatively small, the chief feature being large excess for Class V, while tabes shows no consistent variation of mortality with social class, apart from exhibiting the Class V maximum common to all four members of the group. The rates for G.P.I., much the largest constituent of the group, probably give the best indication of the social distribution of syphilitic mortality, for the special excess of class difference from syphilis so returned may be due to suppression of the facts, and occupational strain must contribute to the class differences for aneurysm.

On the whole, then, it seems that the registered deaths give a much better indication than is sometimes supposed of the distribution of mortality from syphilis ; that the returns for both the more and the less accurately certified ingredients of this mortality support the view that it increases from above downwards along the social scale, though probably to a smaller extent than the figures would indicate ; and that excessive mortality for Class V is the outstanding feature of the distribution, though this may, as already suggested, be due quite as much to inferior treatment as to greater infection. The figures lend no support to any idea that tabes has a differential incidence upon manual, and G.P.I. on mental workers, for both the advantage of Class I, which may be taken as representative of mental workers, and the disadvantage of Class V, that most exclusively representative of manual workers, are greater for G.P.I. than for tabes.

As regards the mortalities returned for separate occupations, Table F shows that six recorded no deaths at all, but of these five were very small occupations, each with less than 10,000 years of life at risk. The sixth, however, wool and worsted spinners and piecers, is on a different scale, with 30,867 years of life. Apart from these six occupations with no mortality, those returning the lowest rates are as follows, the ratio of the C.M.F. in Table D being stated in each case : ministers, 85 ; Anglican clergy, 114 ; iron miners, 140 ; bank officials, 207 ; railway officials, 214 ; and 'bus and tram conductors, 247. These are all occupations of considerable size, years of life varying from 33,969 for bank officials to 80,712 for 'bus and tram conductors. At the other end of the scale come brewers, 4,808 ; actors, 4,649 ; waiters, 2,598 ; costers, 2,284 ; bargemen, 2,144 ; barmen, 2,137 ; musicians, 2,059 ; wool sorters, 2,041 ; and shipyard labourers, 2,026, no other occupation returning double the average mortality. All of these, except brewers and wool sorters, are occupations of considerable size, with over 25,000 years of life in each case, so there can be little doubt as to the reality of the excess.

The character of the occupations returning highest mortalities from syphilitic diseases suggests the possibility of a correlation with alcoholism, as represented by cirrhosis of the liver. This has been tested for the 164 occupations, with the result :—

$$r = + \cdot 401 \pm \cdot 044$$

so that the inference of association appears to be justified.

Correlations of mortality from syphilis etc. with that from cancer, distinguishing the tongue and the œsophagus, are stated on page xxvi.

Cancer mortality shows very definitely the same type of social distribution as that from phthisis, increasing from a minimum of 79·8 per cent. of average in Class I to a maximum of 122·9 per cent. in Class V, and for certain sites grouped as " exposed " in Table 4 (*see* page xxiv and Diag. 5), which account for 51 per cent. of the total cancer mortality, from a minimum of 58 per cent. for Class I to a maximum of 140 per cent. for Class V. Moreover, it is almost certain that these figures understate the real contrast, for so large a proportion of cancer in males is of inaccessible sites that imperfection of diagnosis leading to understatement in some degree of the facts may be assumed, and this understatement presumably increases down the social scale. This differential distribution is much more clearly shown by the returns for 1921–23 than by those for 1910–12, a statement applying also to various other causes (*see* page xiii and Diag. 2).

It thus appears that a large proportion, at least, of cancer mortality is of a highly preventable nature, for we must suppose that if the conditions of life of all sections of society could be assimilated to those of its upper ranks mortality from cancer of the exposed sites would fall for all classes to the Class I level. Indeed it is very possible that knowledge of the preventable causes accounting for the difference might provide the means of reducing if not eliminating these forms of cancer for all causes, for these causes might well be found to apply in varying degree to all sections of society.

But though cancer mortality increases from social Class I to Class V the chance of ultimately dying from cancer at any age under 65 is seen from Table 3 to be much the same for all classes. For this table shows that of the deaths annually occurring in the standard population under the mortality conditions of the five classes, the proportion due to cancer would vary only from 12·3 per cent. for Class IV to 13·4 per cent. for Class III, and continued application of these conditions would imply similar variation in the chance of ultimate death from cancer. But the chance of ultimately dying from cancer is a different matter altogether from the death-rate. It is very considerable at birth, when the death rate is *nil*, and reaches its maximum in middle life, after which it steadily declines whilst the cancer death-rate rises. Thus, on the data for England and Wales during 1901–10 (using Life Table No. 7 for that decade, and the cancer mortality recorded for it), the chance for males of ultimate death from cancer increased with age from ·0618 at birth to ·0902 at 50, and thereafter declined, reaching ·0258 at 85. For females the chance at birth was ·0862 (*i.e.*, of 10,000 infants born 862 were fated to die from cancer, had the conditions remained unchanged), and reached a maximum of ·1154 at 40. But cancer mortality during the same ten years increased steadily for both sexes from a minimum in childhood to a maximum in old age (75–85). The reason for this, at first sight, paradoxical result is that after middle life is past, though cancer mortality continues to increase with age, mortality from other causes increases faster, so that as life advances increasing numbers are saved from death from cancer by dying from some other cause.

It has indeed been contended (Brownlee, Medical Research Council Special Report Series, No. 60) that this is the proper point of view from which to regard cancer mortality, the reason for this view being that cancer is due to ageing of the tissues, and that, as this ageing occurs more rapidly in some environments than in others, allowance should be made for it in comparing the mortalities associated with the environments. But in the first place it has recently been suggested that age in itself does not predispose to cancer, the point being taken that old age may function merely by providing opportunity for prolonged irritation. (Murray, Imperial Cancer Research Fund 8th Scientific Report, p. 79.)

Accepting, however, the general view that the association between cancer and senescence is of a more intimate nature than this, it may be pointed out that use of the chance at any age of ultimate death from cancer (only one of two life table measures of mortality discussed by Brownlee) as the measure of cancer mortality implies a novel conception of the meaning of " mortality." We do not ordinarily regard the cancer mortality of infants as high. Both points of view are of interest, and they are, of course, in no way opposed to each other. But as there seems no reason why mortality from cancer should be measured differently from that due to any other cause, Table 2 will probably be accepted by most readers as showing that cancer mortality increases from Class I to Class V, even though Table 3 shows that for men of working age the chance of ultimately dying from cancer is much the same in all ranks of life.

Definite demonstration of this relationship is of the more interest in view of the fact that examination of the matter in the Medical Research Council Special Report

No. 99 (1926) enabled its authors to come to no certain conclusion except that Brownlee found the rates for textile workers, coal miners, and agricultural labourers (the three industrial groups excluded in 1911 from the general social gradation) significantly below those for other workers. So far, indeed, has the decrease of cancer mortality with increase of social status been from receiving general acceptance, that a recent (1924) view is quoted (without approval) in the same report that " better living predisposes to a higher cancer death-rate," and a recent investigation of the subject based on the body weight and other records of cancer patients in America has led Hoffman to the conclusion that cancer is a disease of over-nutrition (" Cancer and Over-nutrition," Congress of the Royal Institute of Public Health, Ghent, June, 1927). The matter is of real importance in relation to the causation of cancer, for as the authors of the Special Report No. 99 quoted observe in regard to the limited social variation of mortality accepted by them, " we have here a problem of very great interest in the ætiology of the disease."

In view of this importance special tabulation has been made by social class for all the sites of cancer distinguished in the Statistical Review (*see* Review for 1923, Text, Tables XLIV and XLV). Such detailed differentiation by site is clearly out of the question for separate occupations, but may be found to yield interesting results when applied to the larger populations of the social classes. The C.M.F.s resulting from this application will be found in Table 4, and the numbers of deaths on which they are based in Appendix C.

The C.M.F ratios recorded in Table 4 are graphically compared for the five social classes in Diag. 5, which forms an elaboration by site, for cancer, of the picture of social distribution of mortality provided by Diag 3.

The arrangement of the sites in Table 4 and Diag. 5 has been designed to differentiate those proving to manifest definite social grading. First the alimentary canal is dealt with, which may be seen from the table to account for 64 per cent. of the total cancer mortality of males (at 20—65) during 1921–23. This proportion compares with that of 63·3 for males and 31·6 for females, at the same ages, in 1911–20 (Statistical Review, 1921, Tables XXXVIII and XXXIX). But the subdivisions of the alimentary canal are arranged in two groups, because it proves that social grading is very pronounced for all sites above the pylorus, and is not observable to a significant extent as regards any portion of the intestine (Diag. 5). Such social differences as are met with for intestinal sites are of an order which renders them open to explanation as the result of better diagnosis in the higher social grades. Thus the rates both for " colon " and for sigmoid flexure are highest for Class I, and that for " intestine " (part unstated) lowest for the same class ; but for the whole alimentary canal below the pylorus the C.M.F. varies only from 24·0 (Class IV) to 27·1 (Classes I and II), a range which may, taking the uncertainty of diagnosis in this region into account, be regarded as representing uniform mortality for all classes. (It may perhaps be well to point out that the group totals are not necessarily an exact summation of the C.M.F.s for the separate sites in the groups. They are more accurate rates obtained by aggregating the deaths for the groups and calculating the group C.M.F.s from these).

The case is very different above the pylorus. Here the ratio for the aggregate mortality increases without a break from 58 per cent. for Class I to 140 for Class V (Diag. 5). This diagram shows that the increase is regular except for being slight as between Classes III and IV, a point at which the corresponding but greater interruption of increase in Diag. 2 has been shown to be due entirely to the inclusion of agricultural labourers in Class IV. The effect of deducting these from Class IV is there shown, but not that of their transfer to Class III, whose mortality would thereby have been somewhat decreased. In view of the skill undoubtedly implied by their occupation agricultural labourers might perhaps have been assigned to Class III (skilled labour), with advantage to the smoothness of the mortality grading. But there is no means of definitely fixing the appropriate social assignment of any occupation, except a few at the extremes of the series. It can only be estimated empirically, in the belief that while different estimates would show many differences of detail, the general result would tend greatly towards similarity.

Of the upper alimentary sites distinguished, five manifest uninterrupted increase of mortality from Class I to Class V. These are as follows, the percentage ratio of the Class V rate to that for Class I being stated in each case : lip 567, tongue 344, jaw 578, tonsil 650, and stomach 217. Corresponding ratios for the other three, for which increase from I to V is not continuous, are : mouth 277, pharynx 181, œsophagus 170. This grading may be seen from Appendix C to apply very regularly to each of the chief cancer ages as well as to the C.M.F.s summing up these age group rates.

TABLE 4.

Standardized Mortality (C.M.F.) at ages 20–65 years of all Occupied and Retired Civilian Males and of the Five Social Classes from Cancer of various sites, 1921–23.

	—	Standardised Mortality (C.M.F.).						Ratio compared with that of all Occupied and Retired Civilian Males taken as 100.				
		Occupied and Retired.	I.	II.	III.	IV.	V.	I.	II.	III.	IV.	V.
	All Sites	128·4	102·5	118·1	127·1	123·8	157·8	80	92	99	96	123
1	Lip	1·0	0·3	0·5	0·7	1·4	1·7	30	50	70	140	170
	Tongue	7·5	3·6	5·5	7·1	7·5	12·4	48	73	95	100	165
	Mouth	2·2	1·3	1·6	2·2	2·2	3·6	59	73	100	100	164
	Jaw	3·2	0·9	2·3	3·1	3·5	5·2	28	72	97	109	163
	Tonsil	1·6	0·4	1·4	1·5	1·7	2·6	25	88	94	106	163
	Pharynx	1·8	1·6	1·4	1·8	1·8	2·9	89	78	100	100	161
	Oesophagus	9·7	7·4	8·8	10·1	8·5	12·6	76	91	104	88	130
	Stomach	29·5	17·6	24·2	29·4	31·2	38·2	60	82	100	106	130
2	Small Intestine	0·6	0·7	0·6	0·7	0·6	0·8	117	100	117	100	133
	Cæcum	0·9	1·1	1·1	1·0	0·7	0·8	122	122	111	78	89
	Hepatic and Splenic Flexures	0·4	0·1	0·5	0·3	0·5	0·3	25	125	75	125	75
	Sigmoid Flexure	2·2	3·4	2·5	2·2	1·8	2·1	155	114	100	82	95
	Colon, part not stated	5·7	7·5	6·2	5·6	5·0	5·7	132	109	98	88	100
	Intestine, part not stated	3·4	2·8	3·6	3·4	3·4	3·6	82	106	100	100	106
	Large Intestine	9·1	12·0	10·2	9·1	7·9	8·8	132	112	100	87	97
	Total Intestine (excluding rectum)	13·3	15·4	14·2	13·2	12·0	13·2	116	107	99	90	99
	Rectum and anus	12·5	11·6	12·8	12·7	12·0	12·2	93	102	102	96	98
3	Larynx	4·6	3·3	4·4	4·3	4·4	6·2	72	96	93	96	135
	Skin	3·0	1·9	2·2	3·0	3·6	4·5	63	73	100	120	150
	Breast	0·2	—	0·3	0·2	0·2	0·4	—	150	100	100	200
4	Peritoneum, Omentum, Mesentery	0·9	1·3	0·8	1·0	0·9	0·9	144	89	111	100	100
	Pancreas	3·4	3·5	3·5	3·3	3·0	3·8	103	103	97	88	112
	Kidney and Supra Renal	1·6	1·1	1·7	1·6	1·5	1·4	69	106	100	94	88
	Bladder	3·1	3·3	3·0	3·2	2·4	3·9	106	97	103	77	126
	Prostate	2·9	3·2	3·2	3·0	2·3	2·5	110	110	103	79	86
	Testes	0·9	0·8	1·5	0·8	0·8	0·7	89	167	89	89	78
	Brain	0·5	0·8	0·8	0·6	0·4	0·3	160	160	120	80	60
	Bones	2·2	1·6	2·5	2·3	2·1	1·9	73	114	105	95	86
	Gall Bladder	0·9	0·9	0·8	1·0	0·8	0·9	100	89	111	89	100
5	Lung	3·3	3·3	3·6	3·2	2·6	4·1	100	109	97	79	124
	Liver	8·8	6·2	8·9	8·7	8·8	9·5	70	101	99	100	108
	Abdomen	0·6	0·7	0·5	0·6	0·6	0·6	117	83	100	100	100
	Neck	0·3	0·6	0·1	0·3	0·4	0·6	200	33	100	133	200
	Lymphatic Glands	4·1	3·6	3·4	4·2	3·6	5·6	88	83	102	88	137
	Mediastinum	1·9	3·6	2·1	1·7	1·9	1·8	189	111	89	100	95
	Other specified sites	2·0	2·6	2·1	2·0	1·7	2·5	130	105	100	85	125
	Multiple	0·2	0·3	0·2	0·2	0·1	0·2	150	100	100	50	100
	Site not stated	0·1	—	0·1	0·1	0·1	0·1	—	100	100	100	100
1	Upper Alimentary Canal	56·8	33·0	45·6	56·0	57·8	79·3	58	80	99	102	140
2	Intestine and Rectum	25·8	27·1	27·1	25·9	24·0	25·4	105	105	100	93	98
3	Larynx, Skin, Breast	8·1	5·1	6·7	7·9	8·3	11·4	63	83	98	102	141
4	Deep-seated sites	16·4	16·5	17·8	16·7	14·2	16·3	101	109	102	87	99
5	Miscellaneous and ill-defined sites	21·2	20·8	20·9	20·8	19·8	24·9	98	99	98	93	117
1, 3	Exposed sites	65·0	37·9	52·3	63·9	66·1	90·9	58	80	98	102	140
2, 4, 5	Other sites	63·3	64·3	65·8	63·4	57·9	66·5	102	104	100	91	105

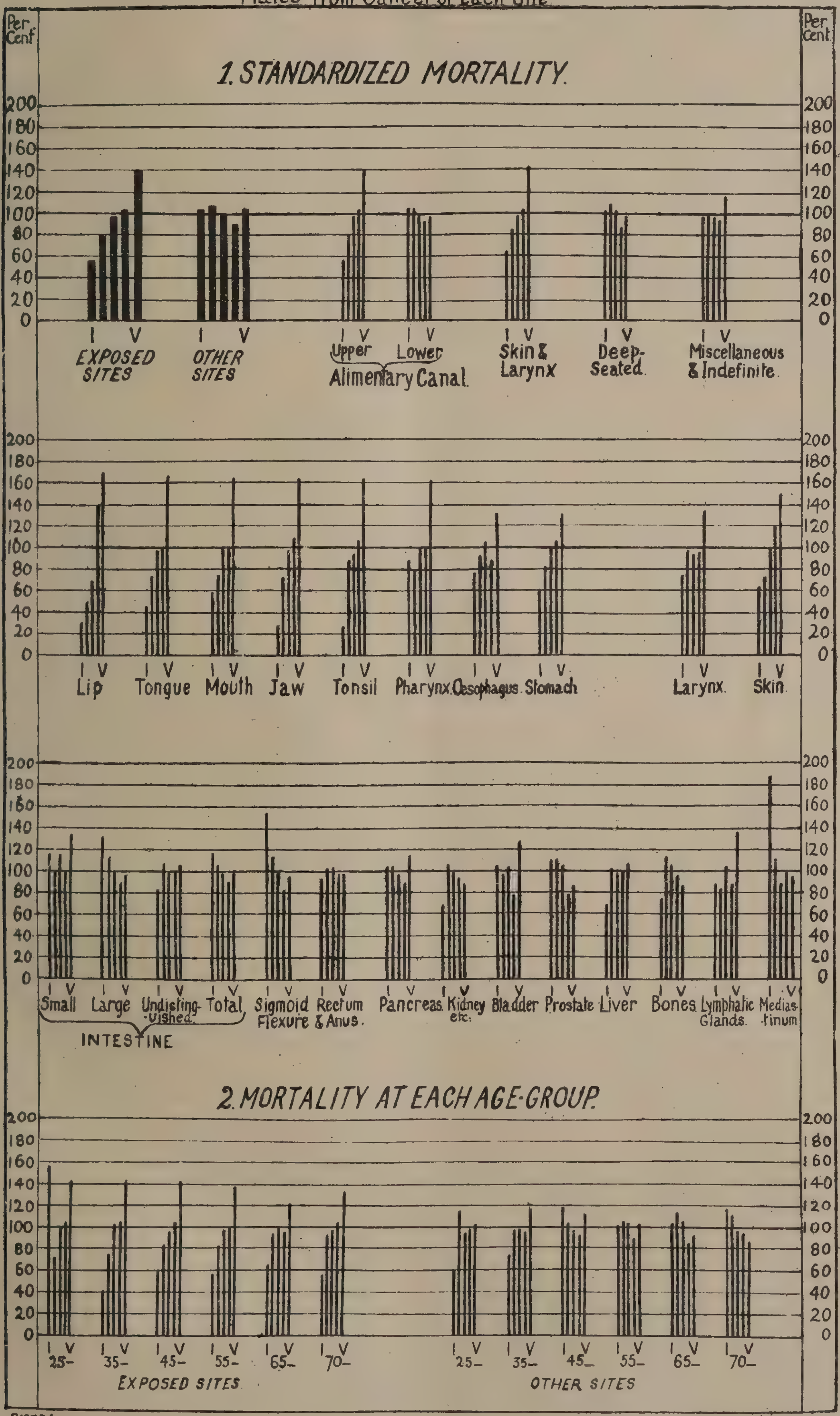
This Class V excess, varying from 70 to 550 per cent. for the upper sites, ceases quite abruptly at the pylorus. The few deaths from cancer of the small intestine, 302 in all, are distributed without significant variation of standardized mortality over all classes, and the same statement applies to the intestine as a whole, and to the rectum and anus. Mortality from intestinal cancer is indeed apparently highest in Class I, but the differences are not comparable with those met with above the pylorus, and the 16 per cent. excess for Class I (over average) may be due to superior certification. This factor may presumably be ruled out for the rectum, and in its case all classes suffer practically alike.

This abrupt contrast between the incidence of upper and lower alimentary cancer may, perhaps, be explained if we regard the regions above the pylorus as exposed to, and those below it as protected from, irritation by environmental influences in the shape of food and drink. For all sites exposed to irritation, larynx, skin, and breast as well as upper alimentary tract, Table 4 shows that much social variation from a Class I minimum to a Class V maximum prevails, whereas for deep-seated sites not subject to influence by the external environment, such as the pancreas and prostate, mortality is very much alike for all classes. The sharp line of demarcation at the pylorus may perhaps be explained on the same grounds as the practical limitation to the supra-pyloric tract of the effects of corrosive poisons. The irritant presumably passes into the stomach almost undiluted, and so capable of damaging all structures encountered on the way as well as, momentarily, the walls of the stomach itself; but, once there, it is greatly diluted by admixture with other gastric contents, and any effects of corrosive poisons upon the intestine are slight as compared with the damage done to the mouth, pharynx, œsophagus, and stomach. The analogy is, of course, not meant to suggest that the carcinogenic irritation to which the upper alimentary tract of the poor man is differentially exposed is of the nature of a corrosive poison—no suggestion at all as to its nature is intended—but merely to provide a possible explanation of the sharp differentiation above and below the pylorus.

Apart from the upper alimentary tract, which accounts for 44 per cent. of the total mortality, the only other sites displaying any noteworthy social gradation are the skin, with which may be grouped the small mortality from cancer of the male breast, and larynx, both of which are obviously subject to environmental influence. The effects of such influence are familiar in the case of the skin, and many of the irritants themselves, such as heat light and Rœntgen rays, tar, soot, paraffin, pitch, and so forth, are already known. But it will be seen that the social variation for skin cancer is of much the same order as for other exposed sites, the Class V rate being between two and three times that for Class I. As varying exposure to irritation is known to be the explanation of the differences in skin cancer, it may well explain also the differences of like degree in cancer of other exposed sites.

The remaining sites have been divided from the present point of view into two groups, deep-seated, and miscellaneous or ill-defined. This differentiation may probably be open to much criticism in detail, but that is really of little moment, since the lower section of the table shows that for both groups social differentiation is negligible as compared with the two groups of exposed sites. There is some Class V excess for the miscellaneous and ill-defined, but this may merely mean that certification tends on the whole to be less precise for Class V than for others, though such evidence as there is on this point does not all seem to point in the same direction. The distribution for the deep-seated group of cancers at all events—of which the pancreas, bladder, and prostate are the chief examples—plainly resembles that of intestinal and rectal growths in showing no significant class variation. These sites have been selected as apparently not subject to external environmental influence, though it is just possible that this may not be wholly true of the bladder, if any cases of the aniline cancer met with elsewhere occur in this country. The testis is qualified for inclusion in this group only in that its functions involve no exposure of the gland to environmental influences. Such class differences as are returned for this group, may, in view of the inaccessibility of most of its components, be largely due to variations in accuracy of diagnosis. But it is needless to discuss such details in view of the fact that cancer sites can be divided into two groups of almost equal importance, the one group exposed to external influence, and of mortality highly graded by social class, and the other not so exposed and showing no significant variation of mortality with social class. It will be noticed that the class ratios for groups 1 (upper alimentary tract) and 3 (larynx and skin) are almost identical, but it is difficult to suppose that this can be more than a coincidence. Whatever the irritants causing lower class excess for group 1 may be, they are surely different from those causing it for group 3.

DIAGRAM 5. SOCIAL DISTRIBUTION OF MORTALITY FROM CANCER OF VARIOUS SITES
Mortality of each Social Class per cent of that of All Occupied and Retired Males from Cancer of each Site.



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It will be seen from Diag. 3 that the social gradation of cancer mortality applies especially to the earlier cancer ages. It is, indeed, not nearly so apparent at 25–35 as ten years later, but the proportion of sarcoma deaths at 25–35 must be large, and the conditions of their occurrence may be entirely different from those applying to carcinoma. As the social gradation of cancer mortality as a whole is entirely due to that of the exposed sites, this feature of its special application to the earlier cancer ages might be expected to be still more pronounced in the case of the exposed sites, but Diag. 5 shows that this is not the case, social gradation persisting in old age for the exposed sites to a far greater extent than for all sites in Diag. 3. But Diag. 5 also provides the explanation, for it exhibits in old age a reversed social gradation (uninterrupted from a Class I maximum of 118 per cent. to a Class V minimum of 88) for " other " sites. This may, with some confidence, be assumed to be a consequence of differential accuracy of certification at these ages (70 and over). There can be little doubt that in extreme old age many cancers escape recognition. Reasons for believing this to be true of our own returns were given in the text of the Statistical Review for 1923 (page 69), and it has been estimated in America that 10 per cent. of all old people die from unsuspected cancer (Wood, F. C., Journ. Am. Med. Assoc., vol. 73 (1919), p. 569). If such under-statement of mortality does in fact exist, it is reasonable to suppose that it will apply least to Class I and most to Class V—at all events, this hypothesis provides an explanation of the limitation of the gradation in question to old age. But if we may look upon the reverse gradation (from a Class I maximum to a Class V minimum) for " other " sites in old age as entirely due to varying precision of certification, then we must suppose that this influence affects also the records for the exposed sites (though probably in less degree since they are on the whole more accessible), in which case the social gradation for them in old age, large as it appears, is understated.

Finally, it may be noted, in support of the differentiation between exposed and other sites here employed, that a comparison of sex mortalities similar to Table 4 shows broadly speaking a similar picture—large male excess for the exposed sites alone, with the same line of demarcation at the pylorus.

A few correlations have been worked for cancer, but no attempt has been made to deal with this aspect of the question on the scale of the Medical Research Council Special Report No. 99, dealing with occupational cancer in 1910–12. Indeed, this could not be done without more tabulation than has been undertaken. The only sites for which occupational correlations can be worked, as matters now stand, are those distinguished in the abstracts—the skin, lip, tongue, œsophagus and stomach. The work of the authors of the report referred to was based on special tabulation additional to that undertaken for the Registrar-General's Report on Occupational Mortality in 1910–12, and while the present report embodies some of this additional material, it has not been attempted to go so far in elaboration of the cancer tabulation in a report on occupational mortality from all causes as the stage reached in the Medical Research Council Special Report on cancer only.

Correlation of total cancer mortality (cancer all sites C.M.F.) with that for diabetes (diabetes C.M.F., Table C) (164 occupations) gives the result :—

$$r = - \cdot 010 \pm \cdot 052$$

which is plainly without significance, and shows that English occupational experience lends no support to the association between the two mortalities found by G. D. Maynard (A Statistical Study in Cancer Death-rates, Biometrika, Vol. VII) to hold good for the cities and States of the U.S.A. in 1900, but which he found not to apply to American occupational data.

The influence of alcohol as a cause of alimentary tract and other cancer has been tested by working the correlation between the C.M.F. for cirrhosis of the liver and for cancer of various sites. The results correspond closely with those given for 1910–12 in the M.R.C. Special Report No. 99 :—

Cirrhosis of the liver and cancer of the tongue .. $r = + \cdot 278 \pm \cdot 049$
,, ,, ,, ,, ,, œsophagus .. $r = + \cdot 358 \pm \cdot 046$
,, ,, ,, ,, ,, stomach .. $r = - \cdot 011 \pm \cdot 053$
,, ,, ,, ,, ,, all sites .. $r = + \cdot 296 \pm \cdot 048$

These results for 164 occupation groups compare with $+ 0 \cdot 224 \pm 0 \cdot 069$ for lingual, $+ 0 \cdot 327 \pm 0 \cdot 064$ for œsophageal, and $- 0 \cdot 010 \pm 0 \cdot 072$ for gastric cancer for 87 occupation groups in Young and Russell's M.R.C. Report referred to. They therefore support the conclusion arrived at in that report that there is a definite tendency for " the mortality from cancer of the tongue and cancer of the œsophagus to be directly associated with the incidence of chronic alcoholism." But there is no evidence of association between alcoholism and cancer of the stomach.

As gastric ulcer is held by many surgeons to be the cause of a large proportion of cases of cancer of the stomach, the correlation between occupational mortality from the latter and from peptic ulcer has been determined, the reason for using peptic rather than gastric ulcer being merely that the C.M.F.s were available for peptic ulcer, and would have had to be determined (from less adequate material) for gastric ulcer. As almost two-thirds of the peptic ulcer deaths at 20–65 were of the gastric variety (page 2) the occupational distribution of peptic ulcer mortality is mainly governed by that of gastric ulcer. It has no significant correlation with that from gastric cancer, the result obtained being, for all 164 occupations :—

Peptic ulcer and cancer of the stomach $r = -\,{\cdot}115 \pm 0{\cdot}052$

or, excluding barristers on account of the great influence of a single death (from duodenal ulcer) on their peptic ulcer C.M.F. (*see* page xci) :—

$$r = +\,{\cdot}091 \pm {\cdot}052.$$

This result does not disprove all causal association between the two diseases in individuals, but it affords no support to it, and will probably be regarded as definitely antagonistic to any suggestion that most gastric cancers arise from ulcers. If this were the case occupations of high gastric ulcer mortality could hardly fail to display some significant excess for gastric cancer, and *vice versa*, but of this the coefficients quoted show no evidence.

The association of syphilitic infection with cancer of all sites, of the tongue, and of the œsophagus has been tested in the same way by calculating the correlation between the C.M.F. for the syphilis group of diseases and for cancer of each of these sites for the same 164 occupation groups. The results are as follows :—

Syphilis group and cancer of all sites .. .. $r = +\,{\cdot}384 \pm {\cdot}045$
,, ,, ,, tongue .. .. $r = +\,{\cdot}359 \pm {\cdot}046$
,, ,, ,, œsophagus .. .. $r = +\,{\cdot}480 \pm {\cdot}041$

Corresponding results given by Young and Russell for 87 occupations were : tongue + ·467 ± ·057, and œsophagus + ·369 ± ·062. Thus the present returns show less association than those of 1910–12 between syphilis and cancer of the tongue, but a greater—in fact, a surprisingly great—association between syphilis and cancer of the œsophagus, and, in addition, a very considerable association between syphilis and total cancer mortality. In commenting on the smaller coefficient obtained by them for syphilis and œsophageal cancer, the authors of the M.R.C. Report say that "though it is customary to apply the Wasserman test in clinical cases of stricture of the œsophagus, the occurrence of a syphilitic affection of this region has been rarely described." They consider that the apparent association of œsophageal cancer and the amount of syphilis is not real but is determined to some extent by its relationship with lingual cancer. This relationship amounted for the 87 occupations used for 1910–12 to

$$r = +\,{\cdot}603 \pm {\cdot}046$$

whereas the 164 occupations now dealt with yield

$$r = +\,{\cdot}423 \pm {\cdot}043$$

which, though still definitely significant, is much less so than the earlier result.

In view of this association Young and Russell calculated the partial correlation coefficient between mortality from cancer of the œsophagus and from syphilis, keeping that from cancer of the tongue constant, obtaining the value + 0·116 ± 0·071, from which they drew the deduction that "while the excessive incidence of lingual cancer in certain occupations has a definite relation to syphilis, the corresponding excess in the amount of œsophageal cancer is dependent on some other common cause which acts injuriously on the two regions," or, in fact, in the words quoted above, that the association with syphilis is not real. In view of the smaller association between lingual and œsophageal cancer now obtained, and the larger association between œsophageal and syphilis, Young and Russell's procedure of calculating the partial coefficient between mortality from cancer of the œsophagus and from syphilis, keeping that from cancer of the tongue constant, has been repeated, with the result (164 occupations) $r = +\,{\cdot}387 \pm {\cdot}045$, which seems to point strongly to the probability of some real association between cancer of the œsophagus and syphilis, even though this has not been recognised clinically.

As the total correlation coefficients obtained by Young and Russell seemed to suggest that mortality both from cirrhosis of the liver and from syphilis was positively correlated with that from cancer of the œsophagus, and as they had found a positive correlation between the occupational mortalities from these two causes, the partial correlation coefficient between mortality from cancer of the œsophagus and from syphilis was calculated by them with that from cirrhosis kept constant, with the result + ·279 ± ·067, which was held to show that alcohol could not explain the association between mortality from syphilis and from œsophageal cancer. As the value of r between syphilis and cirrhosis mortality, found by Young and Russell to be + ·306 ± ·066, is increased for the present data to + ·401 ± ·044 (page xx), the partial correlation between œsophageal cancer and syphilis, with cirrhosis constant, has been worked again for the 164 occupation groups of this report, with the result r = +·393 ± ·044, so the total correlation coefficient of + ·480 ± ·041 now found for mortality from œsophageal cancer and from syphilis is certainly not to be explained merely as a result of the association of both with alcoholism. Cancer of the tongue appears to be independently associated to some extent both with syphilis and with alcoholism, as its partial correlation coefficient with syphilis, liver cirrhosis mortality being kept constant, is + ·282 ± ·048, and with cirrhosis, syphilitic mortality being kept constant, + ·156 ± ·051, for 164 occupations in each case.

The occupations yielding lowest and highest C.M.F.s for cancer of all sites are stated below. The complete record is contained in Table F, the entries in which provide the means of writing the whole of the 178 occupations dealt with in order of cancer mortality. At the top of such a list would stand the following occupations of low mortality, with cancer C.M.F.s as stated in each case, and comparing with the average of 128·4 for the total occupied and retired in the ratios shown, and at its bottom the following occupations of high mortality :—

Occupations in Order of Cancer Mortality (*all sites*).

Lowest Mortality.			Highest Mortality.		
Occupation Group.	C.M.F.	Ratio (Table D).	Occupation Group.	C.M.F.	Ratio (Table D).
136 Ministers (not Anglican)	63·3	493	20 China, etc., kiln and oven men	200·8	1,564
134 Anglican clergy	67·7	527	27*a* Puddlers	205·0	1,597
128 Bank officials	79·2	580	104 Gas stokers	205·2	1,598
85 Machine compositors	82·2	640	68 Hat formers, etc.	207·9	1,619
49 Leather goods makers	82·7	644	56 Cotton spinners and piecers	211·6	1,648
14 Stone miners and quarriers	82·7	644	153 Barmen	229·9	1,790
108 Railway signalmen	84·4	657	75 Cellarmen	231·3	1,801
86 Photographers	87·9	685	13*a* Tin and copper miners (underground)	242·0	1,885
72 Grain millers	88·3	688	40*a* Cutlery grinders	248·8	1,938
3 Farm bailiffs	89·7	699	154 Waiters	257·2	2,003

The position of the clergy of all Protestant denominations at the head of this list is so remarkable, in view of the extent of their advantage over any other occupation, and of the fact that cancer mortality is light also for the Roman Catholic clergy (ratio 724), that it seems scarcely possible to attribute it merely to chance. In the past also their cancer record has been good, though not so pre-eminently so, but it must be remembered that improvement of diagnosis is presumably affecting the clergy less than most other occupations, so that in the past others may have returned lower cancer mortalities from understatement of the facts (*see* page xxv) whose death-rate is now seen, with more accurate certification, to be higher. The exceptionally low mortality of the clergy from syphilitic diseases (page xci) may be of some significance in this connexion, in view of the correlation value of + ·384 ± ·045 between mortality from these diseases and from total cancer (page xxvi).

Some interest attaches to the location of the growths accounting for the excessive mortality of the occupations returning the highest rates, in view of the restriction of social variation to certain sites. The C.M.F.s for cancer of certain groups of sites have therefore been ascertained for the ten occupations of highest mortality conjointly, and for the four largest amongst them—waiters, barmen, cotton spinners and gas stokers—individually. The ratios of these per thousand of the corresponding rates for the occupied and retired as a whole are as follows :—

TABLE 5.

Sites accounting for Cancer Mortality Excess—C.M.F.s for Cancer of certain Sites in Occupations of high Cancer Mortality compared with those for all Occupied and Retired Civilian Males taken as 1,000.

—	Upper alimentary canal.	Skin.	Larynx.	Intestine and Rectum.	Deep-seated Sites.	Miscellaneous.	All sites.
Ten occupations of highest mortality...	1,681	7,067	1,717	1,419	1,415	1,729	1,724
Waiters	2,579	—	3,435	756	1,738	2,206	2,003
Barmen	2,695	—	1,870	1,031	1,329	944	1,790
Cotton spinners ...	1,206	16,200	1,174	1,388	1,494	1,350	1,648
Gas stokers	1,340	7,000	1,478	1,624	1,244	1,822	1,598

The site grouping is that of Table 4. As there was only one death from cancer of the breast (of a cellarman aged 55–65), this has been included with the miscellaneous sites in order to bring out the facts for skin cancer. It will be seen that this varies much more than that of any of the other sites, the cotton spinners' excess of over sixteen times the average being unapproached elsewhere. In their case, 22·9 per cent. of the total cancer C.M.F. is contributed by the skin, as compared with 3·4 per cent. for the occupied and retired, and for gas stokers the corresponding ratio is 11·1 per cent.

The ten occupations as a whole return slightly less excess of mortality from disease of the upper alimentary canal than from cancer in general, which may seem surprising in view of the distinctive social variability of this group of cancers. And indeed similar absence of distinctive variation applies also to the recorded growth of mortality from cancer of these sites during the period, 1901–1925, for which there are means of making the comparison. Mortality from disease of the upper alimentary tract has grown at just about the same rate as that from cancer in general.

But the occupational distribution of this mortality seems very significant. Of the ten occupations dealt with in Table 5 only three, barmen cellarmen and waiters, are of a nature to suggest the likelihood of distinctive food or drink conditions. Two of these are amongst the four largest occupations individually dealt with in Table 5. In both cases, waiters and barmen, the rate for the sites in question is much higher than the average for the ten occupations, and about double those for the other two occupations distinguished, cotton spinners and gas stokers, whose high cancer rate is largely derived from cutaneous growths. In this way, therefore, Table 5 confirms the suggestion of Table 4 that cancer of the upper alimentary tract is largely influenced by food and drink. It also confirms the suggestion of that table that this influence ends at the pylorus, for the intestinal mortality of barmen is only about average, and that of waiters 25 per cent. less than average.

Information as to the particular sites to which this excess for waiters and barmen is due is to be found in Appendix D. From this it appears that the tongue cancer rate for barmen, five and a half times average, is the highest for any occupation. That for waiters is exceeded by 23 others. The œsophageal cancer rates for both barmen and waiters are exceeded only by that for cellarmen, a kindred occupation, and their rates for cancer of the stomach only by those for metal polishers and rag grinders. Table 4 shows that these three sites, tongue, œsophagus and stomach, jointly account for over 82 per cent. of upper alimentary tract cancer mortality, and the smaller rates for the less important sites cannot profitably be studied for single occupations on a basis of three years' deaths. Appendix D, then, containing full occupational detail for all the important upper alimentary canal sites, confirms in a very striking way the special association of this group of cancers with dietetic conditions.

But by far the most definitely occupational cancer deaths remain those due to cutaneous growths, and these are distinguished in the abstracts for each of the 178 occupation groups.

The following is a list of occupations with highest ratios of "actual" to "expected" deaths (calculated at the rates for all occupied and retired civilian males) from skin cancer, the death-rates at ages, the numbers of recorded deaths from skin cancer, and the percentages of recorded to calculated deaths from skin cancer, and of deaths from skin to deaths from total cancer, being as stated in each case :—

Occupation Group No.	—	Deaths from Cancer of the Skin.			Mortality from Cancer of Skin per 100,000 at Ages							
		Number.	Percentages.									
			Recorded of calculated.	Skin of Total Cancer.	16–	20–	25–	35–	45–	55–	65–	70 and up.
—	*Patent fuel workers ...	2	1,429	100	—	—	—	—	—	606	—	—
56	Cotton spinners... ...	53	1,205	23	—	—	—	17	66	188	210	509
157	Chimney sweeps ...	21	1,167	27	—	—	—	65	45	117	222	815
104	Gas stokers	12	750	11	—	—	—	19	10	90	251	526
85	Machine compositors ...	3	750	18	—	—	—	21	25	—	—	2564
53	Cotton carders	3	500	11	—	—	—	32	—	80	—	327
27*a*	Puddlers	7	467	11	—	—	—	—	—	70	181	292
17	Brick, etc., makers ...	7	389	12	—	—	—	—	22	—	119	371
68	Hat formers, etc. ...	4	364	8	—	—	—	—	31	45	—	309
—	*Coke oven workers ...	4	333	13	—	—	—	—	17	41	—	357
23	Skilled glasshouse workers	4	308	8	—	—	—	—	—	36	154	284
117	Bargemen	16	286	8	—	—	—	—	7	58	56	190
119	Coal-boat loaders, etc. ...	4	286	7	—	—	—	—	31	28	—	175
58	Cotton doublers, etc. ...	4	250	6	—	—	—	—	15	50	93	—
109	Railway shunters ...	5	217	6	—	—	—	5	—	23	67	190
164	General labourers ...	261	183	5	—	—	0	3	9	18	42	132
28	Metal moulders	15	174	4	—	—	—	—	9	35	61	62
25	Chemical workers ...	7	159	5	—	—	—	4	15	27	—	—
—	All occupied and retired civilian males ...	2,117	100	3	—	0	0	1	4	12	25	73

* The deaths in these occupations were tabulated by age and cause, but the numbers were too small to warrant publication.

In several of these cases the occupational cancer risk has for some time been well known ; in others it can, if not already recognised, at least be readily understood ; but there are yet others for which the nature of the risk is not apparent on the surface, and which may therefore call for expert investigation. The first of these three groups includes at least the three occupations of highest recorded mortality—patent fuel workers, cotton spinners, and chimney sweeps. The second includes gas stokers (tar and heat risk), puddlers (heat), coke oven workers (tar and heat), and glasshouse workers (heat). The high rates for some cotton workers other than the spinners, whose liability to scrotal cancer from exposure to mineral lubricating oil has attracted so much attention of late, are believed to be largely due to the same exposure in the course of former work as spinners. The bargeman's risk may be tar, as suggested for seamen in the M.R.C. Special Report No. 99, and chemical workers must be liable to many forms of prolonged irritation. Although complete information as to seamen is not available (*see* page 126), the proportion of their total cancer mortality registered in England and Wales which was due to cancer of the skin can be stated at 5·1 per cent., a proportion in only moderate excess of the general average of 3·4. It is a somewhat curious fact that nearly all the occupations noted as of excessive skin cancer mortality record a cancer mortality for sites other than the skin also in excess of average. The only exceptions are patent fuel workers, and three for which the explanation of the skin excess is obscure, and in which it may therefore be due merely to chance—machine compositors, brickmakers, and shunters.

In view of the importance of cancer of the skin as a preventable disease (*e.g.*, mule spinners), examination has been made of the records for the other occupations not dealt with on pages 5–95 for the purpose of bringing to light any instances of excessive mortality which might exist. Fortunately no new facts of convincing significance have emerged, but as a rule three years' deaths provide too small a basis of fact to decide for or against the significance of such excesses as do come to light. It seems best, therefore, to put all on record which are suggestive of even possible significance, so that repetition of the tabulation on another occasion may determine whether the excess in each case is maintained or not. It will be seen that none of the figures obtained reveal any great cause for alarm, and they are put on record merely with a view to making provision for future watchfulness, and to demonstrate that no other case similar to that of mule spinners is lying concealed amongst the occupations for which causes of death are not tabulated. The records for all occupations as classified in Table A were examined, and where more than one death from skin cancer was recorded the crude mortality rate was ascertained. For all occupied and retired males this was found to be 6 per 100,000, and in the case of every occupation for which it exceeded 8 the " expected " deaths were calculated at the age rates applying to the occupied and retired generally. The results are as follows for all occupations fulfilling the conditions (more than one death from skin cancer, and a crude mortality exceeding 8 per 100,000) :—

Occupation Code No.	——	Deaths.		
		"Actual."	"Expected."	Ratio.*
000	Fishermen	26	6·4	406
028	Estate labourers	4	1·7	235
040	Coal mine owners, agents, managers	3	1·8	167
101	Foremen, bricks and pottery	2	0·4	500
139	Unskilled glass-workers	2	0·3	667
339	,, tannery, etc., workers	2	0·8	250
340	Employers, etc., leather goods	3	0·9	333
350	,, textiles	6	5·8	103
399, part	Unskilled workers in cotton	7	2·4	292
400	Employers, etc., dress	10	8·4	119
411	Glove makers	2	0·2	1,000
430	Employers, etc., foods	6	5·0	120
431	Foremen, foods	3	0·9	333
459, part	Unskilled brewery workers	4	2·6	154
470	Employers, etc., wood working...	10	5·5	182
498	Other skilled workers in wood	3	1·9	158
500	Employers, etc., upholstering	2	0·3	667
549	Unskilled workers in printing	2	0·6	333
648	Other skilled makers of musical instruments ...	2	1·1	182
692, part	Inspectors, etc., gasworks	2	1·0	200
699, part	Unskilled workers, gasworks	4	2·8	143
779	Advertising agents	2	0·8	250
797	Pawnbrokers, etc.	2	1·2	167
808	Police inspectors, etc.	2	1·9	105
828	Church, etc., officials	2	2·6	77
845	Mental attendants	3	1·0	300
849	Subordinate medical service	3	1·4	214
899	Miscellaneous entertainers	4	1·9	211
921	Caretakers	8	10·0	80
963	Watchmen	10	12·5	80
965	Street musicians and artists	2	0·3	667

* Deaths registered per cent. of those " expected " (calculated at the age rates for the occupied and retired as a whole).

In a few cases like that of caretakers no excess is shown after allowance has been made for the advanced stage of the lives at risk, but it has been thought best to include all cases fulfilling the conditions described. No doubt other occupations of higher corrected mortality than some of these are undealt with, but the list as it is suffices to show that a standard of 33 per cent. excess for the crude rate implies some degree of excess in nearly all cases after correction for age, so that similar moderate increase of mortality on correction for youthfulness would reveal no instances of really high standardized mortality not included in the table.

The ratio of 406 per cent. for fishermen has been ascertained from the deaths of fishermen registered in England and Wales, and a population representative of

English and Welsh fishermen. This consists of 30,004 fishermen returned as such in the 1921 census, together with 2,366 men returned by the Registrar-General of Shipping and Seamen as fishermen born in England and Wales, and absent from the country on board fishing vessels on census date. This population differs from that employed for seamen in Appendix B in applying only to England and Wales. The reason for this is that the only count of skin cancer deaths available was for those registered in England and Wales. This may be accepted as reasonably complete (page 127), as a fisherman approaching death from cancer of the skin is unlikely to go to sea at such a stage of the disease that his death could occur during the course of the relatively short fishing cruise. A total (all causes) mortality figure for fishermen arrived at in this way would be under-stated by exclusion of deaths occurring at sea, but it is believed that the rate for cancer of the skin must be practically correct. In order to provide comparison with merchant seamen, whose total cancer C.M.F. is stated at 146·7 on page 128, and whose proportion of skin to total cancer mortality, 5·1 per cent. (page xxix), may be compared with similar proportions for other occupations on that page, the population of English and Welsh seamen has been obtained in the same way as that of fishermen, and compared with the deaths registered as due to cancer of the skin. Of these there were 41, while the number to be expected at the rates for all occupied and retired males is 21·8, so an excess of 88 per cent. for seamen compares with that of 306 per cent. for fishermen (and 286 per cent. for bargemen).

Although locomotive engine drivers and firemen have been said to be specially liable to skin cancer from firebox heat, the records for 1921–23 contain little evidence of this. The total number of deaths from skin cancer was 12, as against 11·1 which would have occurred at the average rates for all occupied and retired.

Diabetes.—The social distribution of mortality from this cause is almost precisely the reverse of that from phthisis and cancer. It affects chiefly the classes provided with the financial means of over-eating and under-exercising. Even the excess for Class II over Class I can be fitted into this picture if we assume that both possess the means in question, but that its abuse tends to be more restrained by prudential considerations in Class I than in Class II. This assumption, however, is not altogether in harmony with Diag. 3, which shows that the excess for Class II is limited to 20–65, the ages on which the C.M.F. is calculated, and that the very important mortality (almost 40 per cent. of the whole) at 65 and over is higher for Class I than Class II. Table 3 shows that the chance of ultimate death from diabetes is much the same for these two classes, and is only about one-third as great for Class V. A good illustration of the influence of financial circumstances in this matter is provided by the contrast between the farmer and the agricultural labourer. The environment of both is very similar, but the farmer probably gets a good deal more to eat, and the diabetes C.M.F. of farmers is 16·0, while that of their labourers is 7·3 (Table C).

It is only when the class variation of diabetes mortality is analysed by age, as in Diag. 3, that its full extent and significance can be realised. This diagram shows that at ages under 45 there is no very definite or consistent class variation of mortality, but that after this age the rates for Classes I and II are in great excess. At 55–65 mortality increases with social status from 45 per cent. of average for Class V to 170 per cent. for Class II, which, as at all ages 20–65, returns a higher rate than Class I. After 65 this last exception to the rule of increase of mortality with increase of status disappears, and at 65–70 the rate mounts regularly from 265 per million for Class V to 1,530 for Class I, almost six times as much. At 70– the variation is similar, but its range a little less, from 457 to 2,039. There can be little doubt as to the interpretation of these remarkable figures. It has long been believed that diabetes in later life is largely a disease of over-nutrition, and definite statistical evidence of this is provided by Table XLI and Diag. 1 of the Statistical Review (Text) for 1925. These show that it is this late mortality which fell in this country when food supplies were restricted during the war, and has risen most since they have been restored. It is only to be expected, therefore, that late mortality should be correlated with prosperity, but the extent of the correlation will probably prove surprising to most readers.

On the other hand, Diag. 3 shows no evidence of any relationship between the diabetes of youth and middle life and over-nutrition. Indeed, it may almost be said that early and late diabetes are statistically two different diseases—a conception not altogether lacking in clinical support. It may well be that at the earlier ages defect, sometimes hereditary, of the cells of the pancreas now known to be concerned, is the great cause of diabetes, and in later life the breaking down under overload of originally normal machinery for the utilisation of carbohydrate food.

It may be remarked that a similar diagram for females would probably show far more extreme social grading still, for the diagram in the 1925 Statistical Review referred to shows that the mortality of elderly females has been far more sensitive to changes in the food supply than that of males, and similar experience has been met with also in other countries. Diabetes, indeed, has been more fatal to females than to males in this country from 1923 onwards, the standardized rates for males always having been the higher before. In this matter we appear to be following in the footsteps of the United States, where the mortality, much higher than ours, has long been greater for females, and where apparently the causes of elderly diabetes (which is responsible for most of the deaths, 80 per cent. or more of our recorded mortality for each sex at present occurring at ages over 45) are more prevalent than in England. There, as here, late mortality, especially of females, is increasing rapidly, notwithstanding the introduction of insulin, which in England, at least, has been very effective in reducing the mortality of early and middle life.

Table F shows that the following seven occupation groups recorded no deaths from diabetes : slate quarriers, slate masons, coppersmiths, cellarmen, rubber workers, barristers, and chimney sweeps. Six of these groups are small, ranging from slate masons, 2,539 men, to slate quarriers, 6,645, but the seventh, rubber workers, numbered 16,350. The low rate for bank officials, only 36·1 per cent. of average, is remarkable in view of the Class I excess of 24·6 per cent., which is shared in greater or less degree by the great majority of Class I occupations, the only other exceptions being authors, journalists, etc. (72·1 per cent.), Anglican clergy (77·9), and solicitors (94·3).

Another remarkably low mortality, in view of the extent of data on which it is based, is that of coal hewers (C.M.F. 5·6, or 45·9 per cent. of average). At the other extreme come glass blowers (379·5 per cent. of average mortality), skilled glasshouse workers in general (359·0), tin and copper miners (354·1), wool sorters (347·5), cotton blowroom operatives (323·8), publicans (285·2), other skilled glass workers—*i.e.*, not in glasshouse—(257·4), wool weavers (256·6), dentists (239·3), textile warehousemen (232·8) and tobacco factory operatives (226·2 per cent.). It is at least a remarkable coincidence that the three glass-working occupations distinguished should all figure in this list, even though the glass blowers are included amongst the glasshouse workers, for, as pointed out on page lxx, deduction of the blowers from the glasshouse total shows that diabetes mortality is almost as high (310·7 per cent. of average) for other glasshouse workers as for blowers. So we have three separate groups of glass workers, the only three for which the facts have been tabulated—glass blowers, other skilled glasshouse workers, and other glass workers (*i.e.*, not in the glasshouse)—all figuring in this list. There are, indeed, only four other occupations—wool sorters, tin and copper miners, cotton blowroom workers, and publicans—whose diabetes mortality exceeds that of any one of the three groups of glass-workers. Notwithstanding the small numbers of deaths involved, this seems a very significant fact. Indeed, the very smallness of the numbers on which most of the occupational diabetes rates are based might have been expected to lead to a number of excesses over at least some of the glass-workers' mortalities as the result of mere chance, had these mortalities not all stood out as exceptionally high. In 1910–12 the C.M.F. for glass manufacture was 9, comparing with 10 for all occupied and retired males ; in 1900–02 the glassworkers' excess was about 50 per cent., but in 1890–92, the earliest period with which comparison can be made, the excess was 200 per cent., which does not differ greatly from the present experience.

The age distribution of the glass-workers' deaths is peculiar, none of these deaths occurring at ages over 65, though 40 per cent. of the total deaths (of the occupied and retired) were at these ages, and 60 per cent. being at 55–65, when only 24 per cent. of the total deaths occurred. This in itself may be significant of some occupational influence.

Cerebral hæmorrhage resembles chronic nephritis in showing little variation with social status. Both are in some excess for Classes II and V only (Diag. 3). But the chance of death at working ages is considerably less for Class V than Class II from both causes, owing to greater mortality in Class V from other causes (Table 3). From this point of view the position of Classes I and II is much the same for both, their chance of death at working ages from both being higher than for any other class.

The occupation groups recording highest and lowest mortality from this cause, with the ratio of the C.M.F. in each case per 1,000 for all occupied and retired males, may be seen from Tables D and F to be as follows :—

Occupations in Order of Mortality from Cerebral Hæmorrhage.

Lowest Mortality.				Highest Mortality.			
	Occupation Group.	C.M.F.	Ratio (Table D).		Occupation Group.	C.M.F.	Ratio (Table D).
16	Cement workers	11·8	263	51	Cotton blowroom operatives	97·8	2,178
114	Tram drivers	12·5	278	52	Rag grinders	97·8	2,178
85	Machine compositors	17·6	392	40*a*	Cutlery grinders	98·4	2,192
115	'Bus and tram conductors ...	18·9	421	74	Brewers...	100·8	2,245
140	Dentists	20·2	450	19	Pottery dippers, painters, etc.	104·1	2,318
3	Farm bailiffs	20·6	459	36	Coppersmiths	118·7	2,644
4	Woodmen	21·1	470	38	File cutters	120·0	2,673
151	Gamekeepers	21·7	483	13	Tin and copper miners ...	134·0	2,984
146	Artists	23·1	514	53	Cotton carders...	137·6	3,065
76	Tobacco factory operatives ...	23·7	528	13*a*	Tin and copper miners (underground)	171·0	3,808

Five of the ten occupations of lowest mortality—machine compositors, farm bailiffs, woodmen, gamekeepers, and tobacco workers—are also included amongst the ten of lowest mortality from chronic nephritis, and six—cotton blowroom workers, rag grinders, pottery dippers, coppersmiths, file cutters, and tin and copper miners below ground—are included amongst the ten of highest mortality from each cause. Association of chronic nephritis and cerebral hæmorrhage in the individual as cause and consequence is of course a familiar fact of clinical medicine, and it results in one of the highest correlations found for the occupational groups in this report, that between the C.M.Fs. for chronic nephritis and for cerebral hæmorrhage of the 164 occupations

$$r = + \cdot 658 \pm \cdot 030$$

Diseases of the circulatory system.—The mortality from these causes, taken as a whole, is very much the same in all classes, an excess of 20 per cent. for Class V being the only considerable departure from average. As it is also subject to comparatively little influence from occupational environment, its range of variation in Table D (from a minimum of 36·9 per cent. of average for gamekeepers to a maximum of 237·5 for tin and copper miners below ground) is less than for most causes of comparable magnitude. But though occupational risk is seldom expressed in circulatory form to any outstanding extent such mortality is a very definite feature of one very distinctive group of occupations, the textile trades. These include 16 of the numbered groups, and of these only one, hosiery frame tenters, does not return a circulatory C.M.F. in excess of average, the degree of excess ranging up to 91 per cent. for cotton carders. The hosiery workers' mortality is below average also from both valvular and other heart disease, but only one other textile occupation, rag grinders, returns a low mortality from valvular, and only one, wool carders, from other heart disease. But the textile position is still more remarkable in regard to chronic nephritis, from which not one of the sixteen occupations fails to return mortality in excess of average. With this nephritis excess, no doubt, is associated another distinctive mortality of textile workers—that from cerebral hæmorrhage. From this cause only two of the sixteen textile occupations, wool sorters and wool weavers, fail to exceed the average mortality. It thus appears that the conditions of work in textile mills promote degenerative changes of the kidneys, heart, and blood vessels. The latter statement applies not only to the cerebral vessels but to the arteries generally, excessive mortality from arterio-sclerosis being the rule, to which the chief exception is found in the hosiery workers, whose mortality has been seen to be below average also from both forms of heart disease distinguished. The association between disease of the kidneys, arteries, and heart muscle (the chief ingredient of " other " heart disease) is, of course, to be expected, but the meaning of their association with valvular disease is less obvious. This will be seen shortly to have a different social distribution from myocardial disease, and it may be that both its special incidence upon the poorer sections of the community and its special incidence on textile workers are largely due to attribution in their case of deaths to valvular, which in other cases would be attributed to myocardial disease. The view of the medical profession on the differential diagnosis of these conditions has changed to some extent of late years, as evidenced by the fact that the proportion of deaths in England and Wales from valvular disease to the total from all forms of heart disease, after steady increase during 1911–1918 with increasing precision of certification from 36·4 to 46·1 per cent., has declined every year from 46·3 per cent. in 1920 to 37·4 in 1926 (*Statistical Review* for 1924, Text, page 76). It is only natural that such changes of medical opinion should affect certain sections of the community earlier than others. But if a tendency still exists, though in diminishing degree, to attribute to valvular lesions cases of disease for which the heart muscle is responsible, it is natural that excess of valvular as well as of myocardial mortality should be associated with that from diseases of the arteries and kidneys. The particular conditions in textile work responsible for these degenerative changes form a subject for consideration by those responsible for the health of the mill workers, but one possible hint embodied in the returns may be pointed out. Mortality from disease of the circulatory system is very high, 161·5 per cent. of average, for cotton weavers in the dry sheds dealt with on page 115, but is low, 72·6 per cent., for those working in wet sheds (page lxxvii).

Valvular heart disease.—The social grading of mortality from this cause is represented in Diag. 3. From a Class I minimum of 56·9 per cent. of average it rises regularly to a Class V maximum of 127·6 per cent., or more than double. As in many other cases, the death-rate differs little for the three intermediate classes, constituting the great bulk of the population, but is much lower for Class I and much higher for Class V than for any of the others. The same diagram shows that this grading is at its highest in youth and early manhood, but that in later life it largely disappears. As to its causation two possible factors suggest themselves, both of which may play a part. (1) The ground for believing that deaths may be attributed in Class V to valvular disease on evidence which would lead to a diagnosis of myocardial disease in Class I has been already referred to. But as the same type of social grading is very apparent at ages under 45 for myocardial ("other") disease as well as for valvular (Table G), it is evident that in early and middle life at least heart disease as a whole is found to be specially fatal to the poorer classes. (2) Although no record has been obtained of the social incidence of mortality from acute rheumatism it is to be presumed that even if all classes were subject alike to this disease its effect upon the valves of the heart would be more serious in those least in a position to take the necessary precautions.

The highest and lowest occupational mortalities from valvular disease, with the C.M.F. ratios per 1,000 of that for occupied and retired civilians as a whole, are as follows:—

Occupations in Order of Mortality from Valvular Disease of Heart.

LOWEST MORTALITY.			HIGHEST MORTALITY.		
Occupation Group.	C.M.F.	Ratio (Table D).	Occupation Group.	C.M.F.	Ratio (TableD.)
129 Insurance officials	14·6	230	15 Slate miners and quarriers ...	104·4	1,647
151 Gamekeepers	15·8	249	61 Wool weavers	105·6	1,666
128 Bank officials	21·2	334	51 Cotton blowroom operatives...	107·0	1,688
134 Clergy (Anglican)	24·8	391	93 Slaters and tilers	109·5	1,727
72 Millers	24·9	393	40*a* Cutlery grinders	109·5	1,727
139 Medical practitioners	27·8	438	38 File cutters	117·4	1,852
135 Roman Catholic Priests ...	29·9	472	95 Slate masons	126·4	1,994
108 Railway signalmen	29·9	472	153 Barmen...	128·3	2.024
39 Gasfitters	31·6	498	55 Cotton strippers and grinders	130·8	2,063
16 Cement workers	32·8	517	53 Cotton carders...	137·6	2,170

It will be noticed that four of the ten occupations of highest mortality are textile workers. Also it is at least a curious coincidence, though it is hard to conceive of it being more, that the only three slate working occupations dealt with should all find a place in the ten of highest mortality from valvular disease. But it should be pointed out that, as regards home conditions and medical certification, slate quarriers and workers may be regarded as forming a single occupational group, both for the most part living and working side by side in the same areas of North Wales, though under different occupational conditions imposed by work in the open air and in dusty sheds respectively (see page lxxxiii). It is natural therefore that the excess mortality from valvular disease of the one should apply also to the other occupation (though it will be noted that it is greater for that most exposed to slate dust) so reducing the coincidence, on the assumption of chance, from the appearance of three to that of two slate working occupations amongst those of highest mortality from this cause. After this reduction chance appears the more probable explanation of a very curious coincidence, which is further complicated by the fact that all three slate occupations appear in the list on this page of those with highest and lowest mortality from other (*i.e.*, myocardial) heart disease. But in this case, while the rate for slate workers is again very high, those for slate quarriers and slaters and tilers are amongst the lowest experienced. This reduces any possibility of explaining the high mortality from valvular disease of the North Wales slate operatives as a result of local peculiarities of medical certification to the case of the slate quarriers alone, for the high rates for slate workers from both forms of heart disease can clearly not be explained by any confusion between them. The total heart disease C.M.F. of slate masons, 299·7, is exceeded only by that of underground tin and copper miners, 312·3. It may be noted that these and cutlery grinders (295·4), the three occupations of highest heart disease mortality, are all subject to excessive silica risk.

Other heart disease.—Substantially this is equivalent to myocardial disease. During 1921–23 the 17,878 deaths of males aged 20–65 from diseases of the heart other than valvular (page 2) were made up as follows :—

—	——	Deaths.	Per cent. of total.
87	Pericarditis	343	1·9
88	Acute endocarditis and myocarditis	2,434	13·6
89	Angina pectoris	1,457	8·2
90 (5–7)	Myocardial disease so returned	6,975	39·0
90 (8)	Disordered action of the heart	361	2·0
90 (9)	Heart disease (undefined)	6,308	35·3
		17,878	100·0

Of these groups, all but those numbered 87 and 88, or 84·5 per cent. of the total, may be taken as implying probable chronic myocardial disease ; and as the myocardium is concerned also in the excepted conditions (87 and 88), " other " heart disease may be regarded as equivalent to myocardial disease, mainly of chronic degenerative type, and will be referred to accordingly as myocardial disease.

It has already been pointed out that of the sixteen textile occupations dealt with all but hosiery frame tenters and wool carders suffer a mortality from this cause above the average, and that all of them do so from chronic nephritis. The association for the 164 occupation groups between these two diseases (myocardial disease and chronic nephritis) is fairly high :—

$$r = + \cdot 473 \pm \cdot 041.$$

The occupations of highest and lowest mortality from this cause, with the C.M.F ratio in each case from Table D, are as follows :—

Occupations in Order of Mortality from " other " Heart Disease (*chiefly Myocardial*).

LOWEST MORTALITY.				HIGHEST MORTALITY.			
Occupation Group.		C.M.F.	Ratio (Table D).	Occupation Group.		C.M.F.	Ratio (Table D).
36	Coppersmiths	18·5	282	53	Cotton carders	122·6	1,869
16	Cement workers	20·7	316	75	Cellarmen	133·1	2,029
77	Wood-working foremen ...	24·1	367	19	Pottery dippers, glazers, etc.	138·3	2,108
12	Iron miners below ground ...	26·7	407	20	China, etc., kiln and oven men	139·2	2,122
83	Paper mill workers	32·7	498	13	Tin and copper miners ...	147·1	2,242
3	Farm bailiffs	35·3	538	68	Hat formers, plankers, etc. ...	152·0	2,317
151	Gamekeepers	36·2	552	137	Barristers	164·9	2,514
93	Slaters and tilers	37·0	564	95	Slate masons	173·3	2,642
15	Slate miners and quarriers ...	39·5	602	40*a*	Cutlery grinders	185·9	2,834
90	Building foremen	39·7	605	13*a*	Tin and copper miners below ground	212·8	3,244

It has already been noted that slate masons are included amongst the ten occupations of highest mortality from both myocardial and valvular disease, and the same statement applies also to cutlery grinders, while the enormous excess of myocardial mortality for underground tin and copper miners is also accompanied by large excess (ratio 1,569) from valvular disease.

The association, suggested by the conjunction of these three occupations as those of highest mortality from myocardial disease, between heart disease and silica risk, cannot, unfortunately, be measured directly, as the deaths ascribed either to silicosis or to chronic interstitial pneumonia are far too few to make this possible (page xl). It is worth noting, however, that there is a significant correlation between mortality (164 occupations) from bronchitis and chronic nephritis— $r = + \cdot 380 \pm \cdot 045$. Chronic nephritis has been seen to be associated with heart disease, and bronchitis certainly often results from silicosis. If the latter is a cause of chronic nephritis it may conceivably be a cause also of similar degenerative changes in the heart muscle. But association of these degenerative diseases may of course be independent of silicosis. Little more than vague speculation is possible without some more effective appraisement of the incidence of silicosis on occupations than is at present supplied by the mortality returns.

At ages under 45 mortality from myocardial disease is, as already stated, correlated with social status to a very considerable extent, though less than that of valvular disease, the death-rate at each of these four age groups being lowest for Class I and highest for Class V, but the very much heavier mortality in later life bears little relation to social status (Table G).

Arterio-sclerosis is the only other numerically important cause of death from circulatory disease. Of the total of 100,812 deaths from diseases of the circulatory system (including aneurysm) of occupied and retired males (page 2), 23,264 or 23 per cent., were due to arterio-sclerosis, and 74,140, or 74 per cent. to heart disease, the remaining 3 per cent. being chiefly from aneurysm. As few (under 24 per cent.) of these deaths occur between 20 and 65 no C.M.Fs. have been calculated for this cause, so no statement can be made as to its occupational distribution. Its social distribution, however, is shown in Table G, from which it will be seen that there is a general tendency to decline from Class I to Class IV, with a considerable rise from IV to V. This form of mortality is, as already noted, in large excess for textile workers. Taking these as a whole their death-rate exceeds that of the occupied and retired at each age over 45 by the following percentages—45–, 21 per cent.; 55–, 44 per cent.; 65–, 42 per cent., and 70–, 50 per cent. If hosiery workers, whose working conditions differ a good deal from those of other textile operatives, and who have been seen to escape the excess of mortality from heart disease, valvular and "other," as well as from arterio-sclerosis, common to nearly all other textile workers, are excluded, the textile excesses at the same four ages are increased to 26, 47, 47 and 56 per cent. respectively. As against these excesses the fact that the 249 deaths amongst all occupied and retired males at ages under 45 are unrepresented amongst textile workers is of little moment. Although the age group rates have not been summed up in a textile workers' C.M.F. for the reason stated, their general effect, at ages over 35, when alone such deaths are to be expected, may be shown by the ratio of actual to expected deaths—149 per cent. The corresponding ratio for heart disease at the same ages is 127 per cent., hosiery workers being omitted in both cases. So the textile workers' excess of mortality from arterial disease is even greater than from heart disease at the period of life at which such degenerative changes occur.

Other circulatory disease in Diag. 3 implies other than heart disease, which precedes it. It thus includes arterio-sclerosis, and the "other circulatory disease" of the abstracts, there shown separately. Its large excess for Class I (54 per cent.) is accounted for mainly by arterio-sclerosis, which may be seen from Table G to be in equal or greater excess for Class I at 45–55 and 55–65, the only ages in this case seriously affecting the C.M.F., as the rates at earlier ages are inconsiderable and those at later ages are excluded from the calculation. The Class I excess applies to the miscellaneous circulatory diseases as well as to arterio-sclerosis, at all ages over 45, which alone are of importance in either case.

Respiratory disease.—This form of mortality is more closely associated with social status than any other, whether respiratory tuberculosis, with a similar social distribution to other respiratory disease, be included or not. For the non-tuberculous forms of respiratory disease the C.M.F. increases from 96·2 for Class I to 236·5 for Class V. For bronchitis, for pneumonia, and for other respiratory diseases (as a whole) alike, this increase is uninterrupted (Diag. 3 and Table D). It is at its maximum in the case of bronchitis, which has been already considered in connexion with Diag. 2. Here the Class V mortality is about seven times that of Class I, while for pneumonia and for other respiratory diseases as a whole it is less than double. For respiratory disease as a whole the Class V rate is, as already noted, two and a half times that of Class I.

The fact that social grading is much less, on the whole, especially at the higher ages, for pneumonia than for bronchitis (Diag. 3) suggests that the bronchitis social differences may be due in some degree to deaths being ascribed to bronchitis in Class V which in Class I would be ascribed to pneumonia. This possibility is examined by comparing the proportion of pneumonia to bronchitis deaths in the five classes in the following table :—

TABLE 6.

Ratio of Mortality (C.M.F. at 20–65 and number of deaths at each age) from Pneumonia to that from Bronchitis, taken as 100 in each case, by Social Class and Age.

Age.	Social Class.					
	All Classes.	I.	II.	III.	IV.	V.
20—65	172	555	263	164	153	146
20–	913	—	931	959	744	1,075
25–	685	1,850	859	751	552	612
35–	362	1,363	547	391	304	272
45–	183	561	285	183	166	141
55–	89	309	140	81	77	80
65–	54	172	88	49	48	48
70–	27	73	36	23	21	26

The comparison made is that of deaths tabulated at each age, but if this were done for all ages jointly the decreasing importance of pneumonia as age advances would affect the result, increasing the proportion of pneumonia deaths in the lower social grades, where the younger lives are relatively more numerous (Table 1). For this reason comparison for joint ages is made by means of the C.M.F.s instead of by the total deaths. The table shows that either pneumonia is very much rarer in proportion to bronchitis in the lower social grades, or that conditions returned for Class I as pneumonia are returned for Class V as bronchitis. Very probably both possibilities contribute to the result shown in the table. The ratio (pneumonia per cent. of bronchitis) falls for the C.M.F.s from 555 for Class I to 146 for Class V, the fall being uninterrupted, though the differences become much less towards the lower end of the social scale. Movement is irregular for the ratios based on the small numbers of deaths at 20–25, but at each age thereafter there are large social differences of the same nature as for the C.M.F.s. At 35–45 and 45–55 the ratio falls without interruption from a Class I maximum to a Class V minimum, while at the other four ages dealt with also large falls occur, though not wholly without interruption. But for all classes alike the ratio falls as age increases, without any interruption whatever. Bronchitis (as returned) is thus the disease of old age and of the lower social grades, and pneumonia of youth and of the upper social ranks.

The question often arises whether it is not safer to make comparisons for total respiratory disease (composed for all occupied and retired civilian males of pneumonia 40 per cent., bronchitis 51 per cent., and other diseases 9 per cent.) than for either bronchitis or pneumonia separately. The occupation groups are therefore compared in Tables C D and F for total respiratory disease as well as for bronchitis and pneumonia separately. Those of lowest and highest mortality from the combined diseases are as follows :—

Occupations in Order of Mortality from Respiratory Disease.

LOWEST MORTALITY.				HIGHEST MORTALITY.			
	Occupation Group.	C.M.F.	Ratio (Table D).		Occupation Group.	C.M.F.	Ratio (Table D).
151	Gamekeepers	42·7	281	127	Costermongers	331·6	2,186
4	Woodmen	49·3	325	118	Stevedores	354·4	2,336
108	Signalmen	56·4	372	51	Cotton blowroom operatives	368·9	2,432
136	Nonconformist ministers ...	60·5	399	40	Metal grinders	372·8	2,457
3	Farm bailiffs	62·2	410	18	Potters	433·2	2,856
134	Anglican clergy	63·2	417	55	Cotton strippers and grinders	433·3	2,856
129	Insurance officials	66·3	437	20	China, etc., kiln and oven men	445·3	2,935
47	Watchmakers	67·6	446	13	Tin and copper miners ...	659·6	4,348
105	Railway officials	69·9	461	40A	Cutlery grinders	699·5	4,611
141	Teachers (not music) ...	71·0	468	13A	Tin and copper miners below ground	960·1	6,329

The occupations of lowest mortality include three of distinctively rural type (out of a rural total of six, numbers 1–5 and 151), three professional occupations (out of 16) and two railway occupations (out of six). Those of highest mortality include six (numbers 40, 18, 20, 13, 40A and 13A) of known silica risk, three (118, 51 and 55) exposed to other forms of dust, and only one (127) where the risk appears to arise from exposure to the weather rather than to dust in any form. Two of the three non-silica dust risks are in textile occupations, and both of these are cotton operatives. It is, indeed, remarkable how uniformly this form of mortality in the cotton industry exceeds the corresponding rate in the woollen. The C.M.F. ratios (Table D) in the two industries compare as follows for occupations otherwise identical:—

—	—	Respiratory C.M.F. Ratio (Table D).	
		Cotton.	Wool.
53, 54	Carders	2,071	1,614
56, 57	Spinners	1,273	788
58, 59	Doublers	1,572	785
60, 61	Weavers	1,075	672

The spinning, doubling and weaving of cotton are carried on at high temperatures (70°—80°) in order to soften the waxy content of the fibre, and so render it more easily worked (Dearden, Milroy Lectures, 1927, B.M.J., 1927, Vol. I, 451), while carding room processes do not involve this requirement. The carders' mortality does not differ greatly in the two industries, being higher from bronchitis for wool and from pneumonia for cotton. Thus it appears that for three textile occupations involving for cotton (but not for wool) workers exposure to artificial heat and moisture, respiratory disease mortality is above average for the cotton workers so exposed and well below it for the woollen workers not subject to these conditions, whereas for carders, who are exposed to much dust but little heat, there is excess in both industries.

Bronchitis.—The regularity as well as the extent of the social grading of bronchitis mortality is very remarkable, though even in its case the usual tendency (page xiii) to approximation between the rates for Classes III and IV may be noted. But the excess of the Class V rate over that for Class IV is so great as much more than to compensate for this. It has the effect of approximating the five class rates in some degree to a geometrical progression, all intermediate rates lying below a straight line joining the positions on the chart for Class I and Class V.

Social gradation of bronchitis mortality is greatest at 35–45, when the Class V rate is over eight times that for Class I (Table G and Diag. 3), the Class V excess decreasing with further advance of age to three and a half times the Class I rate at 70–. The reduction is most noticeable for the last age group, 70–.

The occupation groups of lowest and highest bronchitis mortality are as follows:—

Occupations in Order of Mortality from Bronchitis.

LOWEST MORTALITY.			HIGHEST MORTALITY.		
Occupation Group.	C.M.F.	Ratio (Table D).	Occupation group.	C.M.F.	Ratio (Table D).
135 Roman Catholic Priests, etc.	—	—	51 Cotton blowroom operatives	149·8	3,020
137 Barristers	6·2	125	40 Metal grinders	156·5	3,155
134 Anglican clergy	6·8	137	23A Glass blowers and finishers...	159·6	3,218
136 Nonconformist ministers ...	7·5	151	38 File cutters	163·6	3,298
128 Bank officials	9·0	181	13 Tin and copper miners ...	192·8	3,887
143 Civil engineers	9·2	185	20 China, &c., kiln and ovenmen	242·8	4,895
4 Woodmen	9·8	198	13A Tin and copper miners below ground	248·2	5,004
129 Insurance officials	10·9	220	18 Potters, &c.	269·6	5,435
36 Coppersmiths	11·2	226	55 Cotton strippers and grinders	276·7	5,579
1 Farmers	11·4	230	40A Cutlery grinders	361·2	7,282

It will be seen that the list of light mortality occupations is headed by four professions, amongst them all three groups of clergy, and that the first ten include one more profession, two higher business groups, two rural occupations, and only one group of urban manual workers. The ten occupations of highest mortality, on the other hand, are all of manual type, and all urban except tin and copper miners, whose high bronchitis mortality is doubtless due to silica.

Two illustrate the high respiratory mortality of cotton workers, and though neither of these (blowroom operatives and strippers and grinders) is exactly represented in the woollen industry, the contrast already noted for total respiratory disease in occupations common to cotton and wool applies also to bronchitis, except in the case of carders, while even for these men a higher pneumonia mortality more than cancels the cotton bronchitis advantage. The bronchitis C.M.F. ratios for the four occupations common to the two industries compare as follows :—

——	Cotton.	Wool.
Carders	1,647	2,177
Spinners	1,431	514
Doublers	1,960	790
Weavers	1,651	845

Of the three occupations involving high working temperatures in the cotton industry the spinners suffer a bronchitis mortality nearly three times as high in cotton as in wool, doublers about two and a-half times, and weavers nearly twice as high.

The following correlation coefficients have been determined between the C.M.F.s of the 164 occupations for bronchitis and for certain other causes :—

Pneumonia	+ ·534	± ·038
Phthisis	+ ·528	± ·038
Chronic nephritis	+ ·380	± ·045
Cerebral hæmorrhage	+ ·411	± ·044
"Other" (myocardial) heart disease	+ ·300	± ·053

The association with other forms of respiratory disease is of a high order, the same causes no doubt as promote bronchitis leading also to pneumonia and phthisis, *e.g.*, silica and other forms of dust. There is also a considerable association with the heart muscle, artery, kidney group of degenerations, discussed, with special reference to textile occupations, on page xxxiii.

Pneumonia.—Mortality from this cause is, as already noted, much less unequally distributed by social class than that from bronchitis, or respiratory disease as a whole (Diag. 3), yet increase is uninterrupted from a Class I minimum to a Class V maximum. But the differences between Classes I–III are small, the chief class distinctions being provided by progressive increases for IV and V. This feature of pneumonia distribution must be considered in the light of Table 6. Assuming the social distribution of total respiratory mortality to be correctly stated, the difference for pneumonia between Classes I and II would be much greater than it is if pneumonia bore the same relation to bronchitis in the two classes, and the differences between Classes III–V would be much less than they are if reduction of the pneumonia–bronchitis ratio were continued at the same rate between Classes III–V as between I–III. This suggests that the same type of death which is ascribed to pneumonia in one class (I) is ascribed to bronchitis in another (V), so that the social gradation for respiratory disease as a whole is increased by differential certification for bronchitis, and diminished in the same way for pneumonia, but less towards the Class V than the Class I end of the scale. It can hardly be doubted that this is the case, but to what extent the features of Table 6 are to be accounted for in this way, and to what (if any) by actual class difference in the pneumonia–bronchitis ratio, it is impossible to say. It seems significant, however, that on the assumption of class difference in certification, the features of Table 6 can so well account for the increase in class differences of pneumonia mortality from I–II to IV–V.

On this assumption Class II pneumonia mortality is cut down much more than that of I by ascription to bronchitis of the type of death for which certification varies (the Table 6 ratio being 555 per cent. for Class I and 263 for Class II). But the Class V pneumonia mortality is only a little more reduced in this way than that of Class IV, ratios being 153 for IV and 146 for V. Hence, even if the real class differences in pneumonia mortality were all equal, they would appear to be smaller, because more reduced by certification, towards the Class I end of the social scale.

The rule of increase in mortality from Class I to Class V applies without exception at ages under 35 and at 65–70, but at all ages over 20 large excess for Class V is the chief, and at 70– it is the only, evidence of the operation of this rule.

As alcoholism is believed to have a very definite effect in promoting mortality from pneumonia, the correlation ratio of the C.M.F.s for pneumonia and for cirrhosis of the liver has been determined for 163 occupations (omitting barristers, whose cirrhosis C.M.F. is based on a single death). It proves to be only + ·134 ± ·052.

The range of variation is much less for pneumonia than for bronchitis as between occupations, just as it is between social classes. The occupations of lowest and highest mortality, with their C.M.F.s, and the ratios of these per 1,000 for the general average, are as follows :—

Occupations in Order of Mortality from Pneumonia.

Lowest Mortality.				Highest Mortality.			
Occupation Group.		C.M.F.	Ratio (Table D).	Occupation Group.		C.M.F.	Ratio (Table D).
151	Gamekeepers	13·4	157	127	Costermongers	168·4	1,979
4	Woodmen	27·2	320	120	"Other" dock labourers ...	170·6	2,005
108	Railway signalmen	30·4	357	41	Metal polishers	172·4	2,026
136	Nonconformist ministers ...	35·8	421	27A	Puddlers	173·5	2,038
74	Brewers	37·9	445	53	Cotton carders	185·6	2,181
15	Slate miners	38·4	451	29	Iron foundry labourers ...	193·2	2,270
47	Watchmakers	39·0	458	51	Cotton blowroom operatives	193·9	2,278
61	Wool weavers	40·1	471	118	Stevedores	207·1	2,434
105	Railway officials	44·4	522	40A	Grinders of cutlery	207·6	2,439
2	Gardeners	44·9	528	30	Brass foundry labourers ...	212·1	2,492

The list of light mortality occupations is much less distinctive in type than that for bronchitis. It includes only one profession, as against five, and eight groups of manual workers as against two. But it includes three out of the six distinctively rural occupations dealt with, one of which, woodmen, holds a similar position in the bronchitis list. The ten occupations of highest mortality include three exposed to trying alternations of temperature, puddlers and iron and brass foundry labourers. Dust risk is much represented (dock labourers, stevedores, metal polishers, cutlery grinders, cotton carders, blow room workers), but not, it may be noted, by tin and copper miners, whose mortality from other forms of respiratory disease, including phthisis, is so excessive. They suffer very heavily from pneumonia of the chronic interstitial type (see below) but their C.M.F. for acute pneumonia is below average.

Chronic interstitial pneumonia is used as a generic title for such forms of disease as fibroid phthisis, fibrosis of lung, silicosis, miner's phthisis, etc., when returned as non-tuberculous. Under the international scheme of death classification these deaths from chronic inflammatory changes in the lungs caused by irritant dust are distinguished from those due to (acute) pneumonia. As this mortality is of great occupational importance it has been distinguished in the abstracts for each of the occupation groups dealt with, but the total number of deaths for the occupied and retired as a whole is only 498. Even these are for the most part widely scattered in very small numbers over the occupations dealt with, yielding as a rule quite insignificant death-rates. There is, however, a very definite concentration upon a few occupations, chiefly tin and copper miners, the C.M.F.s for which, together with those for the social classes, are as follows :—

—	—	C.M.F.	Ratio.
—	Occupied and retired ...	1·34	1,000
—	Social Class I	1·05	784
—	,, ,, II	0·96	716
—	,, ,, III	1·73	1,291
—	,, ,, IV	1·34	1,000
—	,, ,, V	1·19	888
7	Coal miners, hewers and getters	3·34	2,493
9	Do., making and repairing roads	5·87	4,381
10	Do., others below ground	1·45	1,082
11	Do., above ground ...	1·84	1,373
12	Iron miners	17·97	13,410
13	Tin and copper miners ...	360·99	269,396
13A	Do., below ground ...	546·31	407,694
14	Stone miners and quarriers	11·58	8,642
14A	Do., igneous rock ...	—	—
14B	Do., limestone	4·07	3,037
14C	Do., sandstone	37·24	27,791
94	Masons	29·18	21,776
94A	Do., limestone	30·61	22,843
94B	Do., sandstone	61·26	45,716
18	Potters, etc.	17·20	12,836
21	Brick, etc., kiln and oven men	15·67	11,694
22	Other makers of bricks and pottery	4·33	3,231
40	Metal grinders	33·51	25,007
40A	Cutlery grinders... ...	66·20	49,403
146	Artists	20·13	15,022

The enormous preponderance of Cornish miners' mortality in this list may not altogether represent the facts, for it is very natural that in a case like this, where many instances of a disease rare elsewhere are met with in a limited area, it should there be more completely distinguished in certification from other similar forms of disease. Nearly all the mortality represented in the above list, it will be noticed, is associated in one way or another with stone, whether this is worked in mining for tin and copper, coal, iron ore, or in stone mining and quarrying or dressing. The potters' risk may be attributed to the flint dust used, and the metal grinders' to the dust from grindstones, but it is difficult to conceive of any special occupational risk accounting for the four deaths of artists. It will be noticed that the risk for coal miners is highest in the case of the makers and repairers of roads, who drive shafts and passages through the rock, giving access for the hewers to the working places where the coal itself is cut. The greater risk of sandstone as compared with igneous rock or limestone is referred to on pages lxvii and lxxxii.

Diseases of the Digestive System.—Diag. 3 shows that the main feature of the social distribution of deaths from these causes is considerable excess for Classes I and II, as has already been noted for diabetes. Presumably, as in the case of diabetes, over-indulgence in food (and in this case especially in drink, see cirrhosis of the liver, Diag. 3) by the classes in a position to commit this error leads to excess of mortality from breaking down of the overstrained machinery concerned. The diagram further shows that the ages at which this differential mortality chiefly manifests itself are 45–70, the time of life when, by common observation, the effects of the cause in question are chiefly to be noted, at medicinal spas and elsewhere. The occupations of lowest and highest mortality from these causes, with the C.M.F. in each case (Table C) and its ratio to the general average, are as follows :—

Occupations in Order of Mortality from Diseases of the Digestive System.

Lowest Mortality.				Highest Mortality.			
Occupation Group.		C.M.F.	Ratio (Table D).	Occupation Group.		C.M.F.	Ratio (Table D).
37	Cutlers	9·6	161	54	Wool carders	96·4	1,620
21	Brick kiln and oven men ...	19·9	334	51	Cotton blowroom operatives	101·9	1,713
24	Other workers in glass ...	23·9	402	160A	Textile warehousemen ...	109·8	1,845
15	Slate miners and quarriers ...	26·6	447	140	Dentists	110·5	1,857
77	Woodworking foremen ...	27·9	469	75	Cellarmen	110·5	1,857
114	Tram drivers	32·9	553	148	Actors	130·7	2,197
126	Canvassers and roundsmen ...	33·0	555	153	Barmen	137·3	2,308
3	Farm bailiffs	33·6	565	74	Brewers	186·4	3,133
95	Slate masons	34·0	571	152	Publicans	205·4	3,452
102	Shipwrights	35·8	602	137	Barristers	285·3	4,795

This list is very different from that for respiratory disease, Social Class I being unrepresented amongst the occupations of lowest mortality, all of which belong to Class III with the single exception of slate quarriers (Class IV). The ten occupations of highest mortality, on the other hand, include two professions, barristers and dentists, the rate for the former being much the highest occupational mortality met with (but *see* page xci). These are the only representatives of Class I in this section of the list, which is mainly composed of three Class III and four Class IV occupations, with one (publicans) from Class II.

Peptic Ulcer.—This is the most important single cause of death in the digestive group, with a C.M.F. of 15·8 for the occupied and retired out of 59·5 for the group, or 27 per cent. of the digestive total (Table C). This form of mortality displays a moderate, and almost regular, gradation from a minimum C.M.F. of 14·3 for Class I to a maximum of 19·8 for Class V, the ratio in Table D rising from 905 to 1,253 (Diag. 3). But when age is distinguished (second part of Diag. 3) this gradation is seen not to extend beyond middle life, after which it is reversed. At each age from 25 to 55, as at 20–65 jointly, mortality is lowest in Class I and highest in Class V, though the gradation is naturally less regular (except at 35–45).

But after 55 the picture suddenly changes. The mortality of Class I is now highest at each age, and after 65 that of Class V is lowest, so that the earlier increase of mortality from Class I to Class V is now replaced by decrease, reaching its maximum in old age, and at 65–70 this decrease is as free from interruption as is the increase at 35–45. It will be seen, therefore, that the C.M.F. gradation assumes the type shown in the diagram only because the chief manifestations of the inverse type, those at 65–70 and 70–, are excluded in calculating the C.M.F. for the reasons stated on pages 118–124. When all periods of life tabulated are taken into consideration the difference in mortality between the social classes must be much less than that shown in the diagram for the C.M.F.s, as the mortality representing 15 per cent. of the total deaths, occurring at ages over 65, is highly graded in the opposite direction.

Another curious feature of the social distribution of this form of mortality is the class variation in the proportion of its components, gastric and duodenal ulcer. When allowance is made, by use of the C.M.F. values in Table 2, for the effects of differences in age, which, as between these two classes of peptic ulcer, are naturally slight, these proportions are as follows :—

——	All Classes.	I.	II.	III.	IV.	V.
Gastric ulcer	64	51	58	67	66	67
Duodenal ulcer	36	49	42	33	34	33
Peptic ulcer	100	100	100	100	100	100

It is, of course, not necessary to suppose that these ratios represent the real facts. The differential diagnosis of the two related conditions being difficult, and the frequency of duodenal as compared with gastric ulcer being a matter of recent recognition, we have only to assume that medical practice amongst the more prosperous classes has made further progress in this direction than that amongst the poorer, to explain the steady change of proportion from a maximum for duodenal ulcer in Class I to a minimum in Class V. But it will be noted that the contrast is between the three "working class" groups, III-V, in which the proportions are practically identical, and Classes I and II. The same facts are put in another way in Table 2, which shows that mortality from gastric ulcer increases without interruption from Class I, in which it is only 72 per cent. of average, to Class V, where it is 130 per cent. (a movement similar in direction but greater in degree than that for peptic ulcer), whereas duodenal mortality moves in the opposite direction from a maximum of 125 per cent. of average in Class I to a minimum of 91 in Class III, rising again to 118 per cent. in Class V. This apparently irrational distribution is explained if we suppose that fatal peptic ulcer is really more frequent in the poorer classes, but that its diagnosis, especially at advanced ages, and in the case of the duodenal form, has made more progress amongst the more prosperous.

If age is taken into consideration, it is seen that the proportion of the total peptic ulcer mortality ascribed to duodenal ulcer decreases with advancing age in every class as well as decreasing from Class I to Class V at every age. The two youngest age groups are omitted in the accompanying statement because the numbers of peptic ulcer deaths, 61 at 16–20 and 147 at 20–25, are too small for the purpose in hand.

Peptic Ulcer Mortality.

Age.	Duodenal Per Cent. of Total.					
	All Classes.	I.	II.	III.	IV.	V.
25–	38	75	47	38	29	39
35–	34	56	39	31	33	38
45–	36	48	42	36	35	28
55–	34	41	39	33	31	31
65–	36	45	46	34	32	22
70–	31	44	38	25	23	27

As a consequence of the gradation in differential nomenclature here shown the mortality gradation is increased for gastric and decreased for duodenal as compared with total peptic at those ages, 25–55, at which the total peptic ulcer rates increase from Class I to Class V; and decreased for gastric and increased for duodenal at ages over 55, at which the gradation of the total rates is in the reverse direction. For at the earlier ages, when the contrast is between a low Class I and a high Class V rate for peptic ulcer, duodenal ulcer claims a larger share of the low Class I than of the high Class V peptic mortality, so the class contrast is decreased for this form of ulcer, while in later life the larger duodenal element in Class I mortality adds, for duodenal ulcer, to the large peptic ulcer Class I excess, while the low Class V duodenal proportion similarly reduces the Class V duodenal ratio. The effect upon gastric ulcer is, of course, the reverse of that on duodenal. The results are shown in Table G. At all ages under 55 the gastric ulcer rates, generally speaking, increase from Class I to Class V, but at higher ages they are, apart from a definite Class I excess, fairly uniform for all classes. Duodenal ulcer, on the other hand, shows a general tendency to uniformity, except for Class V excess, at ages under 45, while in later life there is increasing excess in the higher social ranks, culminating in a ratio of 261 per cent. for Class I at 70–. This contrast may be explained on the supposition that symptoms which in the poor old man lead to a diagnosis of indigestion lead in the rich old man to examination (whether by way of operation or otherwise) resulting in the diagnosis of duodenal ulcer. But nothing in the returns can decide whether this is so or whether in later life duodenal ulcer is in fact very much more fatal to the wealthier, as in earlier life to the poorer, classes. On the whole, however, the evidence may be held to justify the surmise that many fatal cases of duodenal ulcer remain unrecognized among the elderly poor, and that the reversal after 55 of peptic ulcer gradation is largely at least due to the same cause. A generation ago peptic ulcer was regarded as chiefly fatal to young women, whereas the mortality now returned is chiefly of elderly men. It is only necessary to suppose that the change of professional view implied by this fact has made less progress amongst the medical attendants of the poor than of the rich to see how the reversal of the class ratio in later life may be explained. For if the poor man's doctor is less alive to the likelihood of peptic ulcer in his elderly patients than the rich man's he will assuredly meet with proportionately fewer instances of its occurrence. The peptic ulcer reversal is unique in Diag. 3, and there is probably no other disease there dealt with regarding the incidence of which medical views have undergone so great a change in recent years. This explanation is, moreover, supported by the varying class proportions of gastric to duodenal ulcer (page xlii).

If the explanation suggested is correct the reversal of gradation for peptic ulcer as age advances may be compared with the increasing Class I excess for appendicitis (page xliv), as in both cases a recent change of professional view transferring the maximum frequency of death from an earlier to a later period of life appears to have made more progress where the deaths of the richer than of the poorer sections of the community are concerned.

The occupations of lowest and highest mortality from peptic ulcer (Table F) are as follows:—

Occupations in Order of Mortality from Peptic Ulcer.

Lowest Mortality.				Highest Mortality.			
	—	C.M.F.	Ratio (Table D).		—	C.M.F.	Ratio (Table D).
37	Cutlers	—	—	80	French polishers	34·5	2,184
95	Slate masons	—	—	52	Rag grinders	34·7	2,196
77	Woodworking foremen ...	3·0	190	75	Cellarmen	38·2	2,418
72	Millers	3·5	222	160A	Warehousemen (textiles) ...	41·1	2,601
63	Hosiery frame tenters ...	4·8	304	74	Brewers	41·6	2,633
86	Photographers	4·9	310	153	Barmen	47·7	3,019
83	Paper mill workers	5·2	329	50	Wool sorters	49·1	3,108
62	Weavers, not cotton or wool	5·9	373	118	Stevedores	51·6	3,266
24	Other glass workers	6·6	418	53	Cotton carders	56·7	3,589
21	Brick, etc., kiln and oven men	6·8	430	137	Barristers	172·6	10,924

This list calls for little comment, both divisions being of heterogeneous type. The association of cellarmen, brewers, and barmen, whose mortality from cirrhosis of the liver is exceeded only by that of publicans (also of high peptic ulcer mortality), amongst the occupations of highest mortality might suggest a connexion between this disease and alcoholism. But the cirrhosis rate is low for all the other seven occupations of highest peptic ulcer mortality, and the correlation value (for 163 occupations, barristers being excluded) between the C.M.F.s for peptic ulcer and for cirrhosis of the liver is + ·270

± ·049, which does not suggest any very close association. The extent to which the exceptional rate for barristers is dependent on a single death is pointed out on page xci.

Appendicitis.—The social distribution of mortality from this disease represents the opposite extreme in type of that from bronchitis, the death-rate being nearly two and a-half times as great for Class I as for Class V, with uninterrupted descent between. It thus proves to be, even more than diabetes, a cause of death specially affecting the upper ranks of society, though in its case the association is probably much less familiar.

It might indeed be conceived of as unreal, and arising merely from better certification amongst the more prosperous classes, were it not that the difference is far too great to be so accounted for, and that this explanation is negatived by the contrasting case of peptic ulcer. This disease, so similar to appendicitis as regards conditions of diagnosis and treatment, has been seen to have an entirely different social distribution, its death-rate increasing from Class I to Class V. If varying efficiency of diagnosis could account for the social distribution of appendicitis mortality, it would surely have a similar effect in the case of peptic ulcer. But in the case of peptic ulcer grounds have been suggested for suspicion that, if the conditions of diagnosis were equal for all classes, excess for the poor would be increased by recognition of this as the cause of many deaths in later life now otherwise certified. It seems therefore that the causes, whatever they may be, responsible for the increase of appendicitis have affected the upper ranks of society much more than the lower. It may well be, indeed, that the class difference in prevalence is understated by the mortality returns, being to some extent offset by more prompt and efficient treatment for the more prosperous classes of a disease so often calling for surgical intervention. This cause of death was not distinguished in previous reports on occupational mortality, so it is impossible to say whether, as generally for other causes discussed, the experience of 1921–23 is in harmony with that of 1910–12.

Diag. 3 shows that the social gradation increases with age, the type being fully established first at 35–45, and afterwards adhered to, apart from minor variations. This again, like the corresponding feature for duodenal ulcer, may be an effect of the varying conditions of medical practice at various social levels. For the recent history of appendicitis mortality is one of decrease in early life followed by increase later, which becomes greater as age advances. During the 15 years 1911–25, for instance, the death-rate of males aged 0–25 fell by 19 per cent. (notwithstanding large increase at 0–5), that at 25–55 remained practically stationary, and that at ages over 55 increased by 39 per cent. There is, therefore, a strong tendency to increased recognition of this malady in later life at the present time, and if we suppose that this tendency has progressed further, on the whole, with the professional attendants of the wealthier than of the poorer classes it must follow that the excess for these classes, recorded at all periods of life to a greater or less extent, will increase as age advances, which is just what the diagram shows as occurring, until, at least, 65–70, at which age the excess for Class I attains the extraordinary proportion of 254 per cent.

The following 19 occupations experienced no deaths from appendicitis (Table C):—

68	Hat formers etc.
16	Cement workers.
86	Photographers.
55	Cotton strippers and grinders.
88	Bookbinders.
93	Slaters and tilers.
19	Pottery dippers, glazers etc.
119	Coal-boat loaders and dischargers.
63	Hosiery frame tenters.
85	Machine compositors.
27A	Puddlers.
66	Cutters (clothing).
37	Cutlers.
40A	Cutlery grinders.
58	Cotton doublers etc.
17	Brickmakers.
15	Slate miners and quarriers.
100	Rubber workers.
75	Cellarmen.

Those of highest mortality are:—

Occupation Group.	C.M.F.	Ratio (Table D).
131 Auctioneers	21·3	2,393
13A Tin and copper miners, below ground	21·9	2,461
160A Warehousemen (textiles) ...	22·0	2,472
144 Architects	22·1	2,483
57 Wool spinners and piecers ...	23·2	2,607
128 Bank officials	23·6	2,652
38 File cutters	24·5	2,753
59 Wool doublers etc. ...	27·0	3,034
74 Brewers	41·6	4,674
137 Barristers	52·8	5,933

The 19 occupations of no mortality all belong to Classes III–V, whereas the 10 of highest mortality include 4, auctioneers, architects, bank officials, and barristers, in Class I.

Hernia.—The social distribution of mortality from this cause is the reverse of that from appendicitis, as the C.M.F. ratios show uninterrupted increase from 56 per cent. of average for Class I to 132 per cent. for Class V (Table 2). Similar ratios are shown for each of the ages over 45 (at which 91 per cent. of the deaths occurred) in Table G. At each of these ages the rate was lowest for Class I, and at each, except 70–, highest for Class V. The gradation is greater and more regular at 55–65 and especially at 45–55 (at both of which increase from the Class I minimum to the Class V maximum is uninterrupted) than in later life, but the same tendency is observable at all ages. Two reasons for this distribution obviously suggest themselves. Occupations involving occasional heavy physical strain are likely to suffer more from hernia than others; and the more educated and intelligent sections of society are more likely than others to avoid the risks of established hernia. Prosperity indeed may exert an influence quite apart from intelligence; for just as the rich man may escape death from phthisis by resort to a place and manner of life not available to the poor man, so, if affected by hernia, he has an opportunity of avoiding risk from physical strain which the nature of his occupation may deny to the poor man. It may, indeed, be this factor which accounts for the decrease of social grading with age. The gradation is greatest at 45–55, when heavy work is still carried on, and decreases as work does with further advance of age. Similar gradation, decreasing in the same way with increase of age after 45–55, is recorded for 1910–12 in the Biometrika article referred to on page viii.

Intestinal Obstruction.—This cause of death does not appear to be definitely related to social status. At ages over 55, at which 62 per cent. of the total deaths occurred, there is comparatively little difference between the class mortalities (Table G), and though large differences exist at earlier ages they are so inconsistent—the rate for Class I, *e.g.*, being much the highest of the five at 20–25 (3 deaths), and much the lowest at 35–45 (2 deaths)—that no general relationship can be inferred. And Table 2 accordingly shows the C.M.F.s as lowest for Class III, rising in each direction to 123 per cent. of average for Class I and 119 per cent. for Class V.

Cirrhosis of the Liver.—This disease was included in the abstracts as the best available index to alcoholism in occupational mortality tabulation. In former reports of this series two such measures were employed, alcoholism returned as such and cirrhosis of the liver. But conditions have changed. Whereas in 1910–12 the deaths of 1,339 men aged 20–65 were allocated to alcoholism the corresponding number in 1921–23 was only 315. As one hundred deaths a year in a population of ten million can form only a very imperfect index to the occupational incidence of alcoholism, reliance for this purpose is now placed entirely on cirrhosis of the liver, to which 2,649 deaths within the same limits of age (20–65) were allocated in the three years. It may, of course, be objected that cirrhosis is not necessarily alcoholic in origin, but evidence of its close association with alcoholism in these returns is discussed on page xlvii, and in any case there is no alternative index available. For these reasons cirrhosis of the liver will, despite the possibility of error involved, be discussed as an index of alcoholism. The mortality comparisons for cirrhosis in Table D show that its incidence varies largely in accord with the financial means available for over-indulgence. As in the parallel case of diabetes the highest mortality is returned by Class II, Class I coming next. But whereas the evidence provided by diabetes points to continuous decrease of over-indulgence in food from Class II to Class V, cirrhosis mortality is at a minimum for Class III, and rises again somewhat for Classes IV and V, though not nearly to the level reached for Classes I and II. It seems probable that the excess for Classes IV and V over III is accounted for by deaths of men reduced to these classes by drinking habits, and if so the cirrhosis mortality of these classes may be regarded as representing the drinking habits of a more prosperous past. The general rule therefore seems to hold that alcoholism varies in proportion to the financial means of obtaining so expensive a luxury as alcohol, modified only in the case of Class I by some countervailing influence, possibly prudence exceeding that of Class II, evidence of which appears where both food (diabetes) and drink (cirrhosis) are concerned. This applies also to the returns for 1910–12, which were much better provided with alcohol mortality data. The parallelism between the two periods, notwithstanding defective social classification for 1910–12, is so close, for both cirrhosis and diabetes, that the reality of the relationships indicated can scarcely be doubted. The percentage ratios of class to total C.M.F.s for the two diseases compare as follows :—

——	All Classes.	I.	II.	III.	IV.	V.
Diabetes—						
1910–12	100	146	141	92	87	82
1921–23	100	125	145	92	75	66
Cirrhosis of the liver—						
1910–12	100	139	173	80	78	105
1921–23	100	163	187	66	74	87

In three of the four cases mortality is highest in Class II. For diabetes it falls to a minimum for Class V at both periods, but for cirrhosis the fall is not continuous, mortality rising in Class V, presumably for the reason suggested. This rise, it will be noted, went much further in 1910–12, when alcohol was cheaper, than in 1921–23, though this must be partly due to the general overstatement of Class V mortality in 1910–12 referred to on page ix. But the main purpose of comparing the figures in this manner is not to bring out such details but to display their general parallelism, which leaves little doubt in the mind that they indicate real differences of a stable nature.

Mortality from cirrhosis may be to some extent an index rather of spirit drinking than of alcoholism in general. As the increase in price of alcohol, which has contributed to bring about so great a reduction in the mortality ascribable to it, applies mainly to spirits, it might be expected that this increase would affect Class II more than Class I, and to a slight extent this may have been so. The excess for II over I was somewhat greater before the increase of price. But little significance, however, can be attached to this change, as the demarcation between Classes I and II has been considerably changed, many "lower middle class" men formerly grouped with Class I being now in Class II. But the excess for both Classes I and II has considerably increased, presumably as a consequence of the increase in price. It may be partly for the same reason that the ratio for Class V has been reduced from 105 to 87, though this is probably accounted for partly also by overstatement of Class V mortality in general, which is known to have occurred in 1910–12. The general increase of class mortality contrast may or may not indicate the effect of increase in price, as improved social class differentiation must have some similar effect (page v). In 1910–12, when deaths from alcoholism numbered 1,451, the social distribution of this mortality was similar to that of mortality from cirrhosis of the liver. And even in 1921–23, though there were only 348 deaths from alcoholism, it may be seen from Table 2 that these two forms of certification still have a similar social distribution. The Class II maximum is very strongly displayed by alcoholism for ages 20–65, when all but 33 of the 348 deaths occurred, the order II, I, V, IV, III, applying, as for cirrhosis.

As for other causes (diabetes, appendicitis), mortality from which is highest in the classes of low total death-rate, the chance of ultimate death (under 65) from cirrhosis is shown by Table 3 to be in great excess for these classes. It appears to be almost three times as great for Classes I and II as for III–V.

Table G shows how consistently the social distribution indicated in Diag. 3 is maintained at all ages. The mortality in early life is trifling, less than 1½ per cent. of the deaths in occupations occurring before 35. But at each of the five later age periods, for which the class mortalities are compared in this table, very much the same order is maintained. At all, the Class II rate is highest, and at all after 45 the Class I rate, equal at 35–, comes next below it. After these there is, especially at the earlier ages, an extraordinary drop to the Class III rate, which at 35–55 is lowest of all (*see* Diag. 3 for ages over 45).

The following occupations record no mortality from this cause in Table C—tin and copper miners, stone and slate miners and quarriers, brick makers, brick kiln and oven men, puddlers, cutlers, wool sorters, cotton carders, cotton strippers and grinders, weavers (other than cotton and wool), woodworking foremen, shipwrights, shipyard labourers, omnibus and tram conductors, and Roman Catholic clergy; and the highest rates are as follows:—

Occupation Group.		C.M.F.	Ratio (Table D).
57	Wool spinners and piecers	25·5	2,656
138	Solicitors	26·2	2,729
19	Pottery dippers, glazers, etc.	26·4	2,750
145	Authors, editors, journalists	29·2	3,042
140	Dentists	39·6	4,125
148	Actors	44·6	4,646
75	Cellarmen	45·1	4,698
153	Barmen	56·0	5,833
74	Brewers	76·8	8,000
152	Publicans	110·9	11,552

Of the 10 occupations of highest mortality three, solicitors journalists and dentists, are assigned to Class I, three each to Classes III and IV, only one, publicans, to Class II, and none to Class V. Publicans form part of a remarkable group of four occupations, all concerned with alcohol, which return the four highest C.M.Fs. in Table C. The significance of this fact admits of no doubt, and together with the correspondence between cirrhosis mortality and financial resources (*vide infra*), it constitutes the evidence of close association of cirrhosis with alcoholism referred to on page xlv. Though publicans are the only representatives of Class II they suffice to account for most of its excess mortality. The actual deaths for the class were 1,453, whereas at the rates for all occupied and retired they would have been 833. Of this excess of 620 deaths, 340, or 55 per cent., were furnished by this one occupation (378 recorded less 38 "expected"). And apart from publicans the cirrhosis C.M.F. of Class II would be 13·12, less than that of Class I, 15·6. It will be seen, therefore, that allowance for the phenomenal mortality of publicans, and for the effects of alcohol in bringing its victims down to Classes IV and V before killing them, can fully explain the departures from the prosperity scale in the distribution of cirrhosis mortality. Broadly speaking, this disease costs money, and is incurred in proportion to financial resources.

Other Diseases of the Digestive System.—This miscellaneous group of causes also shows evidence in its social distribution of the influence of luxury, mortality being highest in Class I, though the fact that Class V comes third points to the simultaneous influence of other factors. The class ratios for all and for "other" digestive diseases compare as follows:—

——	All Classes.	I.	II.	III.	IV.	V.
Other	100	135	114	95	92	112
All	100	127	123	88	94	107

In both cases plain living seems on the whole to make for health, but mortality rises again as poverty increases from Class III, whose conditions seem best adapted to digestive health, to Class V.

Table G shows that excess for Classes I and II occurs chiefly after 35, when the effects of overeating may be expected to have most influence (see also digestive diseases, Diag. 3). The rates for Class V, on the other hand from "other" as from all digestive diseases, exceed average at all ages under 55, and fall short of it at all higher ages, so the causes of this mortality, whatever they may be (and they are too diverse for speculation as to this to be profitable) chiefly affect the youthful poor and the elderly rich. The greatest excess of all, indeed, applies to Class I at 20–25, but this is based on nine deaths, only two of which, one of a medical man and one of a dentist, occurred amongst the two-thirds of the Class I population constituted by the occupations distinguished in the abstracts. Apart from this excess, the tendency at ages under 35 is for mortality to increase from Class I to Class V, in contrast with the excess for I and II at higher ages.

Acute Nephritis.—This form of mortality manifests no definite relationship to social status. The C.M.F. of Class I is lowest, but Class II shares the highest place with Class V

(Table 2). The class ratios show little tendency to maintain any definite order at the different ages, but it may be noted that that for Class I is below the general average at each age except the last (70–), when it is in greater excess, 57 per cent., than any other ratio at any age (Table G).

Chronic Nephritis.—This cause of death is returned to much the same extent for all sections of society (Diag. 3). This uniformity was noted also for 1910–12 (*loc. cit.*) and applies, broadly speaking, to the class ratios at separate ages (Table G) also, but here a general tendency may be noted for the rates for Classes I and II to be below average at ages under 35, when, however, only 6 per cent. of the total deaths occur, and above average in later life, most of all at 65–70. The rate for Class III keeps fairly close to average at all ages. At all over 45 (which furnish 86 per cent. of the total deaths) there is a constant mortality order, consisting of an uninterrupted fall from a Class I or Class II maximum (Class II except at 65–70) to a Class IV minimum, with an excess for Class V over Class IV which is common to all ages over 35. This, indeed, is naturally the order displayed in Diag. 3, though in comparison with other causes of death the general impression there conveyed is one of uniformity.

The occupations of lowest and highest mortality from this cause (Table F) are as follows:—

Occupations in Order of Mortality from Chronic Nephritis.

Lowest Mortality.				Highest Mortality.			
	Occupation Group.	C.M.F.	Ratio (Table D).		Occupation Group.	C.M.F.	Ratio (Table D).
4	Woodmen	9·3	270	13	Tin and copper miners ...	75·5	2,188
15	Slate miners and quarriers ...	9·8	284	52	Rag grinders	77·2	2,238
85	Machine compositors ...	11·7	339	152	Publicans	78·1	2,264
14	Stone miners and quarriers...	14·7	426	19	Pottery dippers, glazers etc.	79·5	2,304
72	Millers	14·9	432	153	Barmen	88·7	2,571
12	Iron miners	15·0	435	36	Coppersmiths	94·2	2,730
76	Tobacco factory operatives	16·2	470	57	Wool spinners and piecers ...	99·9	2,896
151	Gamekeepers	16·7	484	51	Cotton blowroom operatives	102·9	2,983
3	Farm bailiffs	16·7	484	13A	Tin and copper miners below ground	118·6	3,438
25	Chemical workers	17·4	504	38	File cutters	215·1	6,232

The ten occupations of lowest mortality include three out of the six of rural type included in the abstracts, and the rates for the other three are also low, their C.M.F. ratios being as follows—farmers, 722; agricultural labourers, 600; gardeners, 577. It appears, therefore, that this disease is associated with the conditions of urban life, and in each of the years 1911–14, for which alone the comparison can be made on existing tabulation, its mortality increased with each stage of urbanization, from a minimum in the rural districts to a maximum in London. Two of the occupations of highest mortality are of known lead risk, viz., pottery glazers (*see* page li) and file cutters, who, though experiencing no mortality from lead poisoning in 1921–23, have consistently done so in the periods covered by previous reports.

No less than four of the ten occupations of highest mortality—publicans, barmen, pottery dippers, glazers, etc., and wool spinners and piecers—are also included in the corresponding list on page xlvii for cirrhosis of the liver. This confirmation of the accepted view that alcohol promotes chronic nephritis is supported by the correlation value obtained for the C.M.F.s for cirrhosis and chronic nephritis of 162 occupations (excluding file cutters and barristers, each returning only one death from cirrhosis) of + ·419 ± ·044. Its correlation with cerebral hæmorrhage (+·658 ± ·030) is stated on page xxxiii.

Diseases of the Prostate consist almost entirely of hypertrophy of this organ, of the considerable mortality from which almost 85 per cent. occurs at ages over 65, and so is ignored in determining the C.M.F.s stated in Table 2. These are therefore unreliable, and as it happens, misleading, the excess shown for Class II over Class I disappearing when all ages of importance are taken into account. To obtain a satisfactory summation of the age group mortality rates shown for the social classes it has therefore been necessary to determine the number of deaths which the occupied and retired population over 45 years of age (under which mortality is negligible), which actually yielded 6,250 deaths, would have yielded at the age rates of the various classes. These prove to be as follows:—I, 8,629; II, 8,036; III, 5,790; IV, 5,138, and V, 5,032, corresponding percentages of the general average being 138, 129, 93, 82, 81. The overstatement of occupational mortality at ages over 65 (page xi) must prejudice the reliability of this comparison, but in dealing with a form of mortality so much restricted to old age it seems necessary to run this risk, which is of the less consequence, as it happens, because the overstatement probably increases from Class I to Class V, and so its effect is presumably to make the contrast just set forth less than it should otherwise be. As in many other cases (Diag. 3) the chief contrast is between Classes I and II and the three working class strata. This feature increases with age (Table G), being at a maximum at 70–, when the rates for Classes III–V are all very similar, though both at this age and 65–70, the continuity of mortality decline from the Class I maximum to the Class V minimum is uninterrupted. In earlier life social gradation is less regular, though it is perhaps significant that it is much less evident for the 857 deaths at 55–65 than for the 103 at 45–55. This suggests, as indeed seems probable on other grounds, that the class differences recorded by the figures are less of fact than of diagnosis. Deaths from this cause, being uncommon under 55, are more likely to be noted, when they do occur, in Class I than in Class V. At 55–65 such deaths are becoming fairly frequent and, being looked for, are found to an extent not varying greatly with class. In old age, however, there is much evidence to show that the search for causes of mortality is prosecuted with less ardour than at earlier stages of life, and if this is so it is easy to understand why the class gradation increases again after 65.

Other Diseases of the Genito-urinary System include chiefly cystitis, urethral stricture, urinary calculi, and diseases of the kidney other than acute or chronic nephritis. Table 2 shows that the chief feature of the social distribution of mortality from these diseases is large excess for Class V, the C.M.Fs. for the other four classes being all within 10 per cent. of average. This distribution is very clearly marked at 35–45 (before which age the mortality in question is of very little importance), becoming less so as age advances, till in old age (over 65) it has disappeared, and at 70– excess for Classes I and II dominates the picture (Table G). In view of the nature of many of the diseases concerned it seems possible that the distribution in earlier life may be related to that of venereal disease (*see* page xx), but without examination of the causes returned individually no definite conclusion can be arrived at on this point.

Old Age.—The C.M.F.s compared for the social classes in Tables 2 and 3 are to some extent misleading as, taking no account of ages over 65, at which 99 per cent. of the total deaths so certified occurred, they merely indicate the extent to which death has been attributed to premature old age. This is done to a widely varying extent in different sections of society, the class ratios increasing from 29 per cent. of average for Class I to 194 for Class V (Table 2).

But if, in order to include all the deaths so returned, all ages at which such deaths have occurred are taken into account, as in the similar case of prostatic disease (page xlviii), this class contrast is considerably reduced, though it still remains large. The rate for all occupied and retired was 2,543 per million, but at the age rates recorded for the social classes it would have been as follows—Class I, 1,351 ; II, 2,218 ; III, 2,515 ; IV, 2,875, and V, 3,160, yielding ratios of 531, 872, 989, 1,131 and 1,243 per 1,000 respectively. So the attribution of death to "old age" is at a minimum in Class I and increases uninterruptedly to a maximum for Class V. The class intervals are very regular, except that that between I and II is about twice as great as the rest. This evidence coincides with much more already quoted in suggesting that death certification is most careful and precise for the upper social ranks, and becomes progressively less so from Class I to Class V. There are doubtless deaths for which a certificate of "old age" represents all the known facts, and is therefore appropriate, but the fact remains that the necessity of resorting to this indefinite form of certification is experienced in proportion, broadly speaking, to the poverty of the patient.

Suicide.—The death-rate does not vary greatly with social class, but is in excess for Classes I and II, especially the latter (28 per cent.) and somewhat below average for III-V (Diag. 3). The rate for Class II is in considerable excess at all ages under 65 (Table G) and that for Class I at 25–45. Excess for these classes forms the main feature of the class distribution at all ages under 65, as expressed in the C.M.F.s (Table D and Diag. 3), but at 65–70, and especially at 70– , there is a tendency to increase of suicide with increase of poverty, from Class I to Class V, contrasting with the excess for Classes I and II at earlier ages. In its general form the social distribution of mortality from suicide resembles that from cirrhosis of the liver. In both cases mortality is in excess only for Classes I and II, more so for II than I, though the excess is not nearly so great for suicide as for cirrhosis, and in both a large fall from the Class II maximum to Class III is followed by a rise for Class V. But for cirrhosis the range is much greater, and the final rise starts with Class IV. It is not necessary to infer from this similarity that alcohol is the chief cause of suicide, but a considerable association between these two causes of death is indicated by the correlation co-efficient for 163 occupations (excluding barristers, whose cirrhosis rate is based on a single death) of + ·373 ± ·045.

The distribution of suicide was very similar in 1910–12, a pronounced Class II maximum applying to both periods. This class includes shopkeepers, a large body of men very prone to suicide. Although Class II furnishes the highest mortality, Table 3 shows the proportion of deaths from suicide as rather larger for Class I. Each of these classes is in great excess, from this point of view, of the others, the chances of death from suicide being nearly twice as great for Class I as for Class V.

The occupations returning lowest and highest mortalities from suicide are as follows:—

Occupations in Order of Mortality from Suicide.

LOWEST MORTALITY.			HIGHEST MORTALITY.		
Occupation Group.	C.M.F.	Ratio (Table D).	Occupation Group.	C.M.F.	Ratio (Table D).
36 Coppersmiths	—	—	53 Cotton carders	44·3	1,823
95 Slate masons	—	—	139 Medical practitioners	48·9	2,012
135 Roman Catholic priests	—	—	51 Cotton blowroom operatives	49·9	2,053
15 Slate quarriers	5·6	230	63 Hosiery frame tenters	55·0	2,263
136 Nonconformist ministers	6·9	284	118 Stevedores	56·5	2,325
61 Wool weavers	7·0	288	152 Publicans	63·4	2,609
68 Hat formers, plankers, stiffeners	7·3	300	74 Brewers	64·4	2,650
100 Rubber workers	7·3	300	13 Tin and copper miners	74·9	3,082
142 Music teachers	8·5	350	50 Wool sorters	78·1	3,214
114 Tram drivers	8·8	362	13A Tin and copper miners below ground	94·2	3,877

Three occupations, all of small size, were free from suicide during the three years. Two of the three groups of clergy distinguished figure among the ten occupations of lowest suicide mortality, but the third, Anglicans, holds position (Table F) and ratio (Table D), 93, 1,008. Except for the two clerical occupations those of lowest mortality seem on the whole very diverse. Of the ten highest rates it seems significant that four are returned by textile occupations (16 in all). Two are obvious instances of the association with alcoholism discussed above, and one, medical practitioners, presumably to some extent represents a consequence of constant occupational contact with convenient means of suicide. The rates for Cornish miners suggest that in their case at least excessive mortality from natural causes serves rather to promote than to discourage suicide.

Accident.—Diag. 3 shows that mortality from this cause increases from a minimum of 70 per cent. in Class II to a maximum of 129·4 per cent. in Class IV (Table D), the main movement thus being increase downwards along the social scale, though the rate for Class I is a little higher than that for Class II, and the rate for Class V a little lower than that for Class IV. Table G largely supplies the explanation of the excess for Class I over Class II, as it shows that it chiefly applies to ages 16–20 and 20–25, at the latter of which mortality is at its highest for Class I. This presumably means that expensive modes of accidental death, such as mountaineering, are more indulged in by this class at the adventurous stage of life than by any other. In old age (70–) the gradation is strictly on social lines, from a Class I minimum to a Class V maximum, and as accidental death at this time of life often results from lack of care of persons unable by reason of infirmity to care for themselves, it is only to be expected that this form of mortality should be distributed in proportion to the supply of resources, both financial and intellectual, available for the care of the infirm. The fact that at ages under 70 the rates for Class IV exceed those for Class V (except at 45–55, when they are equal) seems to imply that on the whole Class IV occupations are of a more dangerous nature, and in illustration of this it may be pointed out that of the ten occupations quoted below as of highest accident risk six belong to Class IV, and four to Class III, but none to Class V.

It may probably be said, then, that there is a strong general tendency for accident risk to increase downwards along the social scale, from Class I to Class V, but that this movement is reversed as between Classes I and II in youth as the result of adventurous sport, and as between Classes IV and V at the working ages generally, by higher occupational risk, so that it only becomes manifest in this case after working life has ceased.

The occupation groups of highest and lowest accident mortality are shown by Table F to be as follows:—

Occupations in Order of Mortality from Accident.

Lowest Mortality.				Highest Mortality.		
Occupation Group.	C.M.F.	Ratio (Table D).		Occupation Group.	C.M.F.	Ratio (Table D).
19 Pottery dippers glazers &c.	—	—		7 Coal hewers and getters ...	102·6	2,081
101 Brushmakers	7·8	158		90 Building trade foremen ...	103·0	2,089
76 Tobacco factory operatives	8·6	174		96 Platelayers	109·9	2,229
71 Boot factory operatives (not clickers)	8·7	176		14 Stone miners and quarriers...	110·5	2,241
88 Bookbinders	8·7	176		6 Coal mine — subordinate superintending staff ...	131·2	2,661
47 Watchmakers	8·9	181		117 Bargemen and boatmen ...	146·5	2,972
59 Wool doublers	9·3	189		10 Coal mine—miscellaneous underground workers ...	152·7	3,097
60 Cotton weavers	11·0	223		9 Coal mine—persons making and repairing roads ...	161·4	3,274
41 Metal polishers	11·2	227		109 Railway shunters, pointsmen, etc.	164·2	3,331
114 Tram drivers	12·8	260		8 Coal mine—conveyors of material to shaft ...	211·3	4,286

It is a striking testimony to the safety of the tram, commented on in the Statistical Review for 1924 (Text, page 110), that tram drivers find a place in a list of the ten occupations, out of so large a total as 178, of lowest mortality from accident. The list of highest mortalities is very much what might have been expected. It will be noted that it is made up to half its extent of coal mining occupations, all five of the underground coal mining occupations in Table F being included. Of the other five, two, platelayers and shunters, belong to railway, and a third, bargemen, to other transport. Transport may, indeed, claim a large share in the highest risk of all, that of conveyors of material to the mine shaft, and the transport and mining occupations, seeing that the latter include stone miners and quarriers, account for nine out of the ten highest risks in the list, the one exception being builders' foremen. And, presumably, the highest accident risk of all is that of another transport occupation, merchant seamen (Appendix B), though the form in which the deaths are returned only enables us to state their C.M.F. from all forms of violence at 389·7, the highest rate in Table C for suicide and accident combined being coal mine conveyors of material to shaft, 236·3.

Lead Poisoning.—As only 150 deaths of males from occupational lead poisoning were recorded during 1921–23 this cause of death is no longer given a place in the abstracts, but the 150 deaths are shown, by occupation (and in some cases industry) and age, in the following table.

TABLE 7.—*Occupational Lead Poisoning—Number of deaths of Males aged* 16 *years and over by Age and Occupation, and Crude Death-rate per million living,* 1921–23.

Note.—The numbers after the title of the occupation are industry code numbers.

Occupation Code No.	Occupation.	Total over 16.		16–	20–	25–	35–	45–	55–	65–	70 and up.
		Deaths.	Crude Death-rate per million.								
100	Employers and Managers (Bricks and Pottery)	1	99	—	—	—	—	1	—	—	—
101	Foremen (Bricks and Pottery)	1	217	—	—	—	—	—	1	—	—
105	Potters, Ware Makers, Casters and Finishers....	1	41	—	—	—	—	1	—	—	—
107	Pottery Dippers and Glazers	7	3,348	—	—	—	4	1	2	—	—
109	China and Earthenware Kiln and Oven Men (063)	17	1,060	—	—	—	8	3	5	1	—
109	Brick and Tile Kiln and Oven Men (060–2)	1	63	—	—	—	—	—	1	—	—
141–9	Chemical Process Workers in Red and White Lead Works (090)	3	1,894	—	—	—	1	2	—	—	—

TABLE 7—*continued.*

Occupation Code No.	Occupation.	Total over 16.		16–	20–	25–	35–	45–	55–	65–	70 and up.
		Deaths.	Crude Death-rate per million.								
152	Paint Grinders	2	313	—	—	—	1	1	—	—	—
158	"Other" Skilled Paint Makers (090–2*)	1	340	—	—	—	—	—	1	—	—
160	Employers and Managers (Plumbing) (467)	2	122	—	—	—	1	—	1	—	—
279	Blast Furnace Workers, unskilled (110)	1	47	—	—	—	—	—	1	—	—
171, 278, 279	Persons engaged in the Smelting of Zinc and Spelter (122)	4	3,463	—	—	—	—	1	1	2	—
	Persons engaged in Rolling Mills, Tube and Pipe Making—Non-Ferrous Metals (140)—										
169	Foremen	1	1,255	—	—	—	—	1	—	—	—
178	Rollers	1	281	—	—	—	—	1	—	—	—
278	"Other" Skilled Workers	2	560	—	—	—	—	1	1	—	—
183	Iron Foundry Labourers	1	9	—	—	—	—	1	—	—	—
222	Boiler Makers, Platers, &c.	1	7	—	—	—	—	—	1	—	—
235	Gas Fitters	1	27	—	—	—	1	—	—	—	—
242	Lead Burners	1	327	—	—	—	—	1	—	—	—
251	Pipe Fitters	1	63	—	—	—	—	—	1	—	—
252	Plumbers	14	98	—	—	1	2	5	3	2	1
253	Plumbers' Labourers	1	35	—	—	—	—	1	—	—	—
264	Tinsmiths and Sheet Metal Workers	2	20	—	—	—	—	1	—	—	1
302	Accumulator Makers and Pasters	1	731	—	—	—	—	1	—	—	—
470	Employers and Managers (Wood Working)	1	16	—	—	—	—	—	—	1	—
474	Carpenters	1	2	—	—	—	—	1	—	—	—
476	Coachbuilders	1	15	—	—	—	—	1	—	—	—
477	Coopers at Red and White Lead Works (090)	1	4,065	—	—	—	—	—	—	—	1
522	Hand Compositors	3	35	—	—	—	—	1	1	1	—
529	Printing Machine Minders	1	18	—	—	—	—	1	—	—	—
531	Printers (so returned)	1	21	—	—	—	—	—	1	—	—
590	Employers and Managers (Painting and Decorating)	4	121	—	—	—	—	2	—	2	—
591	Foremen (Painting)	1	138	—	—	—	—	—	1	—	—
592	Painters and Decorators	63	136	—	—	—	14	24	15	7	3
599	Painters' Labourers, &c.	1	24	1	—	—	—	—	—	—	—
602	Rubber Mixers, Spreaders, and Moulders	1	95	—	—	—	—	—	1	—	—
729	"Other" Road Transport Workers	1	14	—	—	—	—	1	—	—	—
931, 933, 939	Clerks (not Civil Service or Local Authority)	1†	1	—	—	—	—	1	—	—	—
970–1	General and Undefined Labourers	1	0	—	—	—	—	1	—	—	—
	All Occupied and Retired Civilian Males	150	4	1	—	1	32	56	38	16	6

* Industry 090, Manufacture of Red and White Lead.

† Employed by a firm of Painters and Decorators.

Lead mortality may be seen from this table to be almost confined to three occupations—potters, painters, and plumbers—which furnish 80 per cent. of the deaths. Including employers and managers, foremen, and labourers in each case, the deaths in Table 7 may be summarized as follows :—

		Per cent. of total.
Potters	27	18
Plumbers	18	12
Occupations akin to plumbing	4	3
Painters and decorators	69	46
Other deaths probably due to paint	2	1
Workers in white and red lead	7	5
All other occupations	23	15
Total	150	100

In arriving at these figures the death of a lead burner, or chemical plumber, has been included with other deaths of plumbers. The occupations classed as akin to plumbing are gasfitters and pipe fitters, both of whom, like the plumber, make pipe joints with red lead, and tinsmiths, who, like the plumber, use lead in the form of solder. The two deaths classed as probably due to paint, though not of painters, are those of a coachbuilder and of a clerk employed by a firm of painters. The first implies occupational association with paint, and the clerk may have been a painter given clerical work by his painting firm because of lead poisoning, or if not may have been brought into close occupational association with painting. The seven white and red lead workers include three chemical process men in lead works, two paint grinders (using these materials), one other paint worker, and a cooper in a lead works.

The 23 deaths in miscellaneous occupations include five in printing, and four each in zinc smelting and in the rolling, &c., of non-ferrous metals, so the mortality is very closely confined to occupations of known lead risk.

The degree of risk in each case is indicated, in a very rough way, by the death-rates in Table 7. As the numbers are so small no attempt has been made to allow for variations in age between the occupations compared. The most serious risks appear to apply to certain of the pottery occupations, but by far the greatest number of deaths (46 per cent. of the whole) occurs amongst painters.

It may be of interest to record the deaths from chronic lead poisoning not returned as occupational in origin during the same period (1921–23). These amounted to ten, seven of males and three of females. Three were attributed to lead in drinking water and one to lead in beer. Three more were due to the drinking of water from a household hot water boiler containing lead and copper compounds. Three were ascribed simply to chronic lead poisoning without record of its probable source. As these were all of adult males, it seems possible that they were of occupational origin.

As it has recently been stated that lead confers such complete immunity from cancer that lead burners never die from this cause, their record has been examined on this point. During the three years these men, 1,018 in number at the census, suffered two deaths from cancer, in both cases of the stomach, one at 45–55 and the other at 55–65. The crude death-rate resulting from these figures is 0·65 per 1,000, comparing with 1·74 for the occupied and retired. But from such scanty data the only certain conclusion to be drawn is that lead burners can die from cancer like other people. The cancer ratios (Table D) for the chief lead risk occupations are as follows :—

Group No.		
19	pottery dippers, glazers, &c.	1,519
20	china, &c., kiln and oven men	1,564
42	plumbers	839
98	painters and decorators	1,069

MORTALITY OF OCCUPATIONAL GROUPS (pp. 5–116).

In the following pages the mortality of the various occupations, both from all causes jointly and from those distinguished in Tables C D and F, will be compared from the points of view of each of the two latter tables. That is to say that the ratios of the occupational C.M.F.s to the mean for all occupied and retired civilian males will be studied in conjunction with the "positions" recorded in Table F for each occupation under each cause. In the preparation of this table, the C.M.F.s for each of the 178 occupational groups included in it have been arranged in order of magnitude for each cause of death dealt with, starting with the lowest. Thus, for influenza, the C.M.F., 6·2, for barristers is the lowest in the occupational list, and is given position 1, while that for grinders of cutlery, 106·7, is highest, as expressed by position 178. It is thus possible from this table to ascertain not only the highest and lowest occupational mortalities, from the various causes, as stated in lists in previous reports, but the precise rank of every occupation under every cause dealt with, whether it is found near the top or bottom of the list or intermediately. It is only necessary to remember that rank 1 means lowest and rank 178 highest occupational mortality under each cause, in order to read the table. In some cases a few occupations return no deaths from a certain cause. This is indicated by the sign — in the table, and the occupation of lowest recorded mortality then takes rank after these. Thus, seven occupations with no recorded deaths head the list for diabetes, and the highest numbered position is then 8. Occupations returning the same C.M.F. are given equal rank, following that of highest rank above theirs, but if there are two of them, the next rank is missed, and if three, the next two ranks, &c. Thus, Anglican clergy, bank clerks, and clickers all return the same diabetes C.M.F., 9·5, and are all allotted rank 61, which happens to be followed by three other occupations each of C.M.F. 9·6, and each receiving rank 64, the next being 67. In interpreting the figures extracted from Table F, confusion will be avoided by bearing in mind that high rank corresponds with low mortality.

All occupation groups for which C.M.F.s are shown in Table C have been included in Table F, even though a few of them are merely sub-divisions of others. In the following pages the first figure quoted for an occupation after any cause is its position for that cause in Table F, and the second the ratio of its C.M.F. for that cause to that of all occupied and retired males, taken as 1,000 (Table D). Thus, for waiters, cancer

(178, 2003) means that their cancer C.M.F., 257·2, is the highest for any of the 178 occupational groups compared, and is 200·3 per cent. of average; and for Anglican clergy, phthisis (6, 321) means that five occupations yield lower rates than their C.M.F. of 52·5, which is 32·1 per cent. of average. Naturally, these indices point very much in the same direction, but each forms a useful supplement to the other. The same ratio, for instance, may be of much more significance for one cause than another. Occupational mortality from some causes, such as phthisis, varies much more than from others, such as cancer, and we find accordingly that the same ratio is more significant for cancer than for phthisis. Waiters (178, 2003) have twice the average mortality from cancer, and tobacco factory operatives (160, 2002) from phthisis, but for waiters this implies the highest cancer mortality of the 178 occupations, while the phthisis mortality of tobacco workers is exceeded by that of 18 other occupations.

On the other hand, as a certain number of small occupations, including 14 subdivisions of the 164 occupation groups dealt with, have been included in Tables E and F on account of some special risk involved, the occupations of highest mortality tend to be smaller (in numbers at risk) than the average. For this reason average mortality implies a position less than half way down the list, which would of course be 89 or 90 in a list of 178 occupation groups. Thus group 145, journalists, etc., whose total mortality is nearest average with a ratio of 1003 (Table D), hold position 77 in Table F, well above midway; and position 89 in this table is held by group 147, proprietors and managers of theatres, &c., whose C.M.F. ratio in Tables B and D is 1020.

1–5. Agricultural occupations as a whole return, as always, a very favourable mortality experience. For the whole Order, comprising 876,400 males aged 20–65 at the 1921 census, the mortality ratio (deaths which actually occurred at these ages per cent. of those which would have occurred if the mortality at each age had been that of all occupied and retired civilian males) was only 68; and for each occupation distinguished it was below average, the highest ratio being 87 for a comparatively small group of 2,687 estate labourers (Table A). This mortality is distinctly below that of the rural districts in which agriculture is mainly carried on. The rates in 1921–23 for agricultural labourers, whose mortality is slightly above that of agriculturists in general (69 : 68, Table A), compare as follows with those for the rural districts in 1921–23 at certain ages:—

Deaths per 100,000 *Living.*

	Agricultural Labourers.	Rural Districts. All Males.
25–35	340	385
35–45	416	517
45–55	730	848
55–65	1,727	1,905

As the population of the rural districts is largely composed of agriculturists (in 1921 the number of males aged 20–65 engaged in agriculture in England and Wales was 42 per cent. of the number at the same ages enumerated in the rural districts) the contrast in mortality between agriculturists and the population amongst which they live must be considerably greater than that expressed by the above figures. The extent of this advantage at different periods of life (over the general average for all areas, urban and rural) can be seen in Table B for the five agricultural occupation groups distinguished in the abstracts. Generally speaking, it is large in early and middle life, and considerably less in old age. Farmers, especially, start working life with a very great advantage, which in their case is reduced almost regularly as age advances. In early life their mortality is much lower than that of their labourers, but from 35 on very much the same.

One of these occupations, that of Farm Bailiffs and Foremen, is remarkable as returning the lowest mortality, as measured by the C.M.F. of the 178 occupation groups dealt with in the abstracts. This may be seen from Table E, which shows that these men come first on the list (*i.e.*, have the lowest C.M.F.) at 20–65, second at 25–35 and 45–55, third at 55–65, fourth at 35–45, and seventh at 20–25—a remarkable record of consistently low mortality as compared with other men of the same ages. At ages over 70, however, their rate is rather high, being exceeded by those of only 34 other occupations (but see page xi).

The consistently low mortality of farm foremen during the working period of life is a feature common also to other groups of foremen, as follows: –

Position (Table E).

	Ages.							
	20–65	20–	25–	35–	45–	55–	65–	70–
Farm bailiffs, foremen ..	1	7	2	4	2	3	20	144
Woodworking foremen ..	5	47	9	1	12	12	54	58
Builders' foremen	15	11	17	8	27	20	37	94
Coal mines, subordinate superintending staff ..	27	26	48	7	24	57	119	163
Railway officials	10	—	18	8	15	22	62	42

The first three of these groups are the only ones out of the list of 178 described as foremen, but the fourth is evidently of the same nature. At all ages under 65 each of these groups of foremen stands high in the list of 178 occupations, the lowest position being 57th at 55–65 for the mining superintendents. So consistent a record requires explanation, and two possible reasons for it suggest themselves—(1) selection for promotion to foreman rank partly on grounds of health, and (2) a tendency to exaggeration of industrial status in filling up the census schedules. As to (1) it seems unlikely that a man of bad health record or subnormal capacity for work would be selected for the post of foreman, but how far such conscious or unconscious application by employers of the test of physical fitness in selecting foremen suffices to account for their low mortality must remain uncertain. As to (2) there is evidence in the tables of a tendency to magnification of office in the statement of occupation on the census schedules by the persons concerned which probably does not apply in like degree when entry of their occupation in the death register has to be made by an official not subject to the same very natural tendency. If in this way the population of foremen tends to be overstated while their deaths are not, under-statement of their mortality must result. It may be noted in Table A that the mortality of company secretaries and registrars, and of heads of commercial office departments, is remarkably low, much lower than for the Church or any other profession, for which, generally speaking, correspondence between the entries in the census schedules and the death registers must be good, owing to the existence of an occupational definition in the form of a professional qualification. Unless physical qualifications are a very important factor in regard to promotion in commercial as well as in manual work, the second explanation seems the more applicable in this case.

It would appear, therefore, that farm bailiffs owe their proud position to the conjunction of two favouring influences—agricultural occupation and foreman status. Like the mining deputies, &c., they fall away sadly in old age, their mortality at ages over 70 being 32 per cent. above average (Table B). Selection has naturally ceased at these ages, but such a reversal of experience of earlier life is not to be explained on this ground alone. The unreliable nature of the death-rates at this age (page xi) has to be borne in mind.

Table D shows the mortality of farmers to be below the average from every cause distinguished in that table (and these in combination represent 86 per cent. of their total mortality—Table C) except diabetes, appendicitis, and suicide. The excess of 31 per cent. from diabetes may be associated with free consumption of an abundant food supply (*see* page xxxi). It resembles the only other disease, mortality from which specially affects farmers —appendicitis—in its record of special fatality to the more comfortable classes (Diag. 3). These facts suggest that farmers, whose C.M.F. ratio from digestive diseases generally, 98·5 per cent., is out of proportion to their ratio of 67·4 per cent. from all causes jointly, may suffer from the effects of good living, even though this is not recognized as a cause of appendicitis. Excess of suicide amongst farmers is common also to their bailiffs, and may find its explanation in the peculiar anxieties and risks of a calling so much at the mercy of the weather.

Gardeners return a very consistent record of low mortality, the only cause in excess being, again, appendicitis. Consistently low mortality from all the causes distinguished in Table D is, indeed, a characteristic of all the agricultural occupations. It reaches its maximum, for that table, with agricultural labourers (including shepherds), whose standardized mortality is above average from no cause, though it just reaches average in the case of suicide. No other occupation except carpenters can claim this distinction.

6–11. Coal Miners.—As a whole, but excluding the subordinate superintending staff (group 6), these workers suffered a mortality at 20–65 in excess of average by 3·4 per cent. (Table B). This is a new experience, previous reports of this series having consistently shown them in a favourable position at these ages. After 65 the excess increases to about

15 per cent. As this happens to be one of the few occupations the 1921 returns for which are fairly comparable with those of earlier censuses, their mortality per 100,000 at each age is compared as follows with that for 1910–12, for all ages common to the two reports :—

	20–25.	25–35.	35–45.	45–55.	55–65.
1910–12	383	439	670	1,265	3,007
1921–23	377	416	629	1,116	2,823

At each of these five ages mortality has declined, but not so much as for other occupations as a whole, percentage reductions for coal miners and for all occupied and retired civilian males between 1910–12 and 1921–23 comparing as follows :—

	20–25.	25–35.	35–45.	45–55.	55–65.
Coal miners (7–11) ..	1·6	5·2	6·1	11·8	6·1
Occupied and retired ..	—	15·3	19·5	21·1	14·4

The mortality of coal miners at these ages bore the following percentage ratios to that of the occupied and retired generally at the two periods.

	20–25.	25–35.	35–45.	45–55.	55–65.
1910–12	109	93	84	86	100
1921–23	107	104	98	97	110

Thus, a very slight improvement in relative mortality for miners at 20–25, an age group of the occupied population which did not share in the general reduction applying to higher ages, is accompanied by a very definite deterioration of their position at each subsequent age, greatest at 35–45, at which age their former advantage was at its height. Indeed, it is only at 35–55 that miners now hold any advantage at all.

These changes are noted in the Report of the Royal Commission on the Coal Industry (1925), page 196, which goes on to suggest that this relatively increased mortality among coal miners may possibly be due to the large number of men who entered the industry during and after the war, and who were, perhaps, less robust than the average coal miner before the war. A memorandum on this subject prepared in this Department is printed as Appendix 32 to the Commission's Report. It points out that practically all causes of death except accident have contributed to the deterioration of the comparative mortality of coal miners, as shown by the following table.

TABLE 8.—*Mortality of Coal Miners* (7–11) *from various Causes per cent. of that of All Occupied and Retired Males,* 1910–12 *and* 1921–23.

—	25–35.		35–45.		45–55.		55–65.		Standardized Mortality (C.M.F.).	
	1910–12.	1921–23.	1910–12.	1921–23.	1910–12.	1921–23.	1910–12.	1921–23.	1910–12.*	1921–23.†
All causes	93	104	84	98	86	97	100	110	92	103
Tuberculosis	53	73	52	75	58	73	66	90	56	77
Cancer	73	82	79	103	79	85	78	86	78	87
Diseases of the Nervous System ...	85	105	78	91	73	104	102	116	85	105
,, ,, Circulatory System	88	85	82	86	93	88	100	105	93	95
,, ,, Respiratory System	84	102	82	97	102	110	134	149	109	123
,, ,, Digestive System ...	85	91	66	83	68	77	88	90	78	86
,, ,, Genito-urinary system	65	92	75	83	54	71	76	83	67	81
Phthisis	50	71	49	74	56	72	75	88	54	76
Diabetes	83	83	88	100	60	62	48	41	60	64
Tabes Dorsalis and General Paralysis of the Insane	63	125	71	90	69	96	76	90	72	95
Cerebral Hæmorrhage	75	100	71	91	62	98	103	116	86	109
Valvular Disease of the Heart ...	100	82	85	92	95	107	105	119	97	107
Aneurysm	—	—	56	67	82	64	71	68	71	66
Bronchitis	60	100	94	90	109	114	149	180	134	149
Pneumonia	89	102	80	99	99	106	111	111	96	107
Cirrhosis of the Liver	50	—	50	25	50	47	61	77	54	58
Bright's Disease	64	89	67	82	45	60	70	80	61	76
Suicide	64	78	52	80	54	74	74	104	58	86
Accident	284	270	249	251	233	232	216	209	246	237

* Relates to ages 25–65. † Relates to ages 20–65.

Although the basis of the C.M.F. figures compared differs slightly at the two periods, covering ages 25–65 for 1910–12 and 20–65 for 1921–23, yet, as comparison is made in each case with the corresponding figure for all occupied and retired males, it can be little affected by the slight widening of the basis at the later period.

The only causes distinguished in the table yielding lower C.M.F.s in 1921–23 than in 1910–12 as compared with those for other occupations are aneurysm and accident, for the latter of which the relative change is slight, though the actual reduction of mortality is large. As to other causes, the memorandum referred to points out that from causes from which the mortality of miners was especially low in 1910–12, such as phthisis, their advantage is now much less, while causes showing heavy mortality for miners at the earlier period, such as bronchitis at ages over 45, show a still heavier mortality now. In weighing these facts, it must not be forgotten that the rate of mortality from tuberculosis among coal miners was extremely low in 1910–12 (as it still is at all age groups under 55), so that, having regard to the general decline in this form of mortality it could hardly be expected that the same percentage superiority would continue to be maintained. With regard to mortality from bronchitis and pneumonia, the miners' record from which is relatively unfavourable at ages over 45, we must not forget that the coal-mining industry is carried on chiefly in parts of the country where the mortality from these causes in the general population is high (*see* Statistical Review for 1925, Tables XLVI–XLVIII).

Analysis by cause thus throws very little light upon the reason for the relative increase which has occurred in the mortality of miners. If any relative deterioration in their conditions of work were to blame for the change, one would expect those causes chiefly influenced by these conditions (particularly the respiratory diseases) to be more affected than others. But cancer, which one would not expect to be influenced by conditions in the mines, shows practically as much relative increase as respiratory disease. Possibly some deterioration in the type of man employed in the mines may have occurred as a result of the large influx of new human material which occurred during the war. This would presumably have the effect of an all-round increase in mortality, such as is seen to have occurred. Whatever the causes were which had established the coal miner in his favourable position before the war—selective recruitment for a physically exacting but, on the whole, healthy occupation may have been one—they would be likely to be much affected by such a change of personnel as the war must have brought about. This, however, is mere speculation, though consistent with the facts.

Coal miners are in this Report divided occupationally into six groups—subordinate superintending staff, hewers and getters, conveyors of material to the shaft, makers and repairers of roads, other workers below ground, and workers above ground.

The distinctions between these groups are partly indicated by their titles, but can be better appreciated in the light of a knowledge of their differences in age. This is afforded by Table L of the General Report on the Census of 1921, which shows the numbers at different ages per 1,000 at all ages. The main features of the age distribution are more evident when the eleven age groups of this table are condensed to three, as follows:—

Proportion to total Coal Miners.		Ages. Under 20	20–55	Over 55	All ages.
6	Owners, agents, managers	35	743	222	1,000
41	Subordinate superintending staff	9	823	168	1,000
530	Hewers and getters	100	820	80	1,000
159	Conveying material to the shaft	538	443	19	1,000
58	Making and repairing roads	61	713	226	1,000
93	Other workers below ground	147	683	170	1,000
113	Workers above ground	267	570	163	1,000
1,000					

Much the largest group—53 per cent. of the whole—is formed by hewers and getters, who are men in the prime of life, more than half of them being between 25 and 45 years of age. Next come the conveyors of material to the shaft, almost 16 per cent. of the total. These are chiefly boys and youths, 54 per cent. being under 20 years of age, and less than 2 per cent. over 55. Workers above ground, over 11 per cent. of the whole, include a larger proportion of boys (under 14) and old men (over 70) than any other group. At the prime of life, 20–55, their numbers are relatively low, the youthful conveyors of materials alone providing lower proportions at these ages. Evidently men who can secure places as hewers do not as a rule work above ground. Makers and repairers of roads form less than 6 per cent. of the total. Compared with other underground employments this is an old man's job, the proportion aged over 55 being much higher here than in any of the other underground occupations distinguished.

Table D shows that standardized mortality is 6 per cent. below average for hewers and getters—the main body of workers—and 18 per cent. below for the subordinate superintending staff, the latter sharing the favourable experience common to foremen generally (page lv). Indeed, only 26 out of the 178 occupations compared in Table F return a lower C.M.F. than these mining superintendents. But the other four occupations dealt with all experienced a mortality about 20 per cent. in excess of average, the degree of excess varying from 18 per cent. for workers above ground to 23 for miscellaneous workers below. It is the youthful members of this group who experience the high mortality, their excess at 16–20 being 77 per cent., and at 20–25, 50 per cent. (Table B). Road workers are also subject to heavy mortality (55 per cent. excess) at 20–25. This excess of mortality is partly accounted for by accident, a risk which for coal miners in general is 136·5 per cent. in excess of average, reaching a maximum of 328·6 per cent. excess for the youthful conveyors of material (Table D). But even apart from accident the mortality of these "other" (group 10) workers is high. Many causes contribute to this, their excess of mortality at 16–20 being large from influenza, tuberculosis, cancer, diabetes, nervous diseases, heart disease, and respiratory disease. This would suggest that the miscellaneous employments constituting this group are largely followed by youths whose health forbids the more strenuous and remunerative calling of hewer. At all ages under 65 the mortality of hewers and getters is below the average for miners, indicating that these are picked men. At all ages their mortality from accident is below the miners' average, though at most it is about double the average for all occupations.

Apart from accident (169, 2081) Table F shows no high mortality from any cause for these men. Their worst position for any other cause in this table is bronchitis (130, 1425).

The mortality records have, at the instance of the Mines Department, been separately assembled (on pages 95–112) for the fourteen coalfields shown in Tables 9–14, which deal separately with hewers aud getters, other underground workers, and workers above ground.

Table 9 brings out some apparently inconsistent differences between the mortality experience of hewers and getters and of other underground workers in the various fields, which can only be noted here, without discussion. The lowest rates both for hewers and for others underground are those of the Leicester Warwick and South Derby field, 81·3 per cent. of the coal miners' average for hewers and 62·2 per cent. for others. There is far more variation for other workers than for hewers, the highest excess for "others," 24·9 per cent. in Glamorgan, also being greater than that for hewers, 21·0 per cent. in what may be called the West Wales field. Three fields—Cumberland, Lancashire and Cheshire, and Glamorgan—return rates in excess of average for both hewers and other underground workers, and six—Northumberland, Durham, Derby, Leicester, &c., Monmouth, and Gloucester-Somerset—rates below average for both, but the Notts. experience is distinctly favourable for hewers though unfavourable for others, while in the remaining four fields—the West Riding, both Staffs. fields, and West Wales—a rate in excess of average for hewers is accompanied by one below average for others. The mortalities at ages are in general harmony with the C.M.F. ratios just quoted. Thus hewers' rates in Leicester are below average at every age, and those for other workers in excess only at 20–25 and 70 and over. The hewers' excesses in Lancs. and in West Wales are also very widespread. There is far more local variation of mortality for above ground than for underground workers, and a more definite association with geographical situation. The rates are highest in the North of England and lowest in the Midlands, those of South Wales being intermediate. The progression from a maximum of 58·3 excess in Durham and Northumberland, *via* Lancashire and Yorkshire, to a minimum in Derby and Notts., is uninterrupted, and here again the age rates are in general harmony with those for all ages.

The C.M.F.s by cause and coalfield are recorded for hewers in Table 10 and for other underground workers in Table 12, and the ratio of these to those for corresponding workers in England and Wales in Tables 11 and 13.

TABLE 9.—*Mortality at various Ages of Coal Miners in different parts of the country as compared with that of the same Occupation in England and Wales taken as 100 in each case*—1921–23.

	Age 20–65. (C.M.F.)	16–	20–	25–	35–	45–	55–	65–	70 and over.
Hewers and Getters (042).									
England and Wales	100·0	100	100	100	100	100	100	100	100
Northumberland	88·5	52	85	104	92	80	89	73	63
Durham	87·8	64	104	103	88	87	83	84	58
Cheshire and Lancashire	118·2	64	119	103	117	112	126	135	144
Yorkshire, West Riding	103·9	65	116	103	115	109	96	110	125
Nottinghamshire	88·6	22	79	79	90	96	87	72	67
Derbyshire, excluding the South Derbyshire coalfield	82·7	69	68	84	86	91	79	83	118
The North Staffordshire coalfield	108·2	49	105	108	99	107	113	110	110
Staffordshire (excluding the North Staffordshire coalfield), Shropshire and Worcestershire	100·7	40	49	111	99	103	103	141	149
Leicester, Warwickshire and the South Derbyshire coalfield	81·3	66	88	89	82	74	82	67	95
Glamorganshire	106·7	137	110	96	94	109	113	92	104
Monmouthshire	98·4	92	120	98	108	92	96	78	103
Brecknockshire, Carmarthenshire and Pembrokeshire	121·0	127	151	140	114	99	128	152	116
Cumberland	102·3	435	110	156	110	128	71	87	98
Gloucestershire and Somersetshire	87·1	67	58	68	79	96	93	129	103
Other Workers below Ground, not Superintending Staff (043–047).									
England and Wales	100·0	100	100	100	100	100	100	100	100
Northumberland	91·9	109	72	121	95	96	81	97	98
Durham	91·9	102	95	109	91	90	88	102	136
Cheshire and Lancashire	104·5	95	98	93	98	109	109	95	80
Yorkshire, West Riding	95·4	100	115	97	89	90	99	107	77
Nottinghamshire	107·3	103	87	110	94	122	105	122	150
Derbyshire, excluding the South Derbyshire coalfield	92·0	89	111	96	112	104	70	124	77
The North Staffordshire coalfield	84·8	47	128	83	87	55	99	73	55
Staffordshire (excluding the North Staffordshire coalfield), Shropshire and Worcestershire	81·8	128	86	71	59	90	89	54	80
Leicestershire, Warwickshire and the South Derbyshire coalfield	62·2	69	105	68	31	69	63	80	109
Glamorganshire	124·9	158	117	109	123	123	134	106	85
Monmouthshire	97·1	221	95	70	99	95	107	87	84
Brecknockshire, Carmarthenshire and Pembrokeshire	99·8	183	58	105	152	74	99	83	82
Cumberland	112·0	94	97	197	125	93	94	95	83
Gloucestershire and Somersetshire	69·2	21	41	65	68	45	93	133	63
Workers above Ground, not Superintending Staff (049).									
England and Wales	100·0	100	100	100	100	100	100	100	100
Durham and Northumberland	158·3	125	145	160	148	162	163	139	133
Cheshire and Lancashire	113·5	90	110	77	139	110	117	119	95
Yorkshire, West Riding	91·9	113	78	89	79	94	100	106	104
Derbyshire and Nottinghamshire, excluding the South Derbyshire coalfield	74·8	78	79	101	77	66	70	72	118
Staffordshire, Worcestershire, Warwickshire, Shropshire, Leicestershire and the South Derbyshire coalfield	83·7	87	88	98	67	93	80	90	105
Glamorganshire, Monmouthshire, Carmarthenshire, Brecknockshire and Pembrokeshire	105·9	93	89	86	113	112	108	112	82

TABLE 10.—*Standardized Mortality (C.M.F.) of Coal Mine Hewers and Getters, aged 20–65 years, in various parts of the Country from certain selected Causes, 1921–23.*

	England and Wales.	Northumberland.	Durham.	Cheshire and Lancashire.	Yorkshire, West Riding.	Nottinghamshire.	Derbyshire, excluding the South Derbyshire Coalfield.	North Staffordshire Coalfield.	Staffordshire (excluding North Staffordshire Coalfield), Shropshire and Worcestershire.	Leicestershire, Warwickshire, and the South Derbyshire Coalfield.	Glamorganshire.	Monmouthshire.	Brecknockshire, Carmarthenshire, and Pembrokeshire.	Cumberland.	Gloucestershire and Somersetshire.
All Causes	938	830	824	1,109	975	831	776	1,015	945	763	1,001	923	1,135	960	817
Influenza	40·1	55·3	46·8	35·0	32·3	21·1	15·2	30·4	54·0	44·1	49·3	62·4	42·9	48·8	64·7
Tuberculosis (all forms)	123·7	109·1	94·2	173·3	148·5	102·1	81·6	115·7	110·7	93·0	123·5	111·3	213·0	50·3	85·2
Respiratory tuberculosis	112·2	98·9	85·5	165·1	135·9	95·3	68·9	101·3	102·3	85·7	112·1	92·5	191·1	44·5	62·3
Syphilis, &c.	24·1	26·2	23·9	22·8	24·6	30·1	26·5	25·5	17·4	21·5	31·3	18·9	15·8	13·3	2·8
Cancer (all sites)	105·6	126·7	94·9	119·9	103·9	97·1	87·1	127·4	126·1	116·9	94·8	105·5	88·1	113·6	63·6
Cancer of the stomach	34·9	40·3	36·2	41·9	32·6	19·4	27·2	35·7	34·1	46·1	32·3	44·8	25·1	69·5	14·2
Diabetes	5·6	4·7	7·1	3·2	7·2	3·6	6·4	—	10·2	6·7	3·7	6·7	11·3	14·0	10·3
Cerebral hæmorrhage, &c.	43·6	19·7	49·5	54·4	50·7	34·9	31·2	37·4	36·0	19·5	53·2	27·6	63·2	50·5	16·1
Diseases of the circulatory system	126·6	91·7	119·2	153·6	133·7	112·8	105·8	168·9	90·5	101·8	141·5	95·8	113·9	146·9	179·4
Diseases of the heart	107·3	79·7	98·4	115·1	112·8	90·7	89·9	148·2	83·3	87·5	128·0	89·3	114·0	130·7	165·8
Valvular disease of heart	55·8	56·0	54·5	63·7	63·9	34·9	44·6	94·2	35·7	39·1	58·2	48·1	65·9	37·6	73·9
Other heart disease	51·5	23·7	43·9	51·4	48·9	55·8	45·3	54·0	47·6	48·4	69·8	41·2	48·1	93·1	91·9
Diseases of the respiratory system	173·9	138·7	119·5	227·3	171·5	133·7	144·2	190·2	218·0	108·9	203·4	191·4	307·2	111·9	145·7
Bronchitis	70·7	47·6	38·8	98·6	58·8	53·5	65·0	66·6	89·3	33·8	101·6	62·0	139·3	48·2	66·2
Pneumonia	83·2	73·4	71·7	109·4	94·2	62·3	60·3	113·1	118·5	62·4	77·2	88·6	115·2	42·4	34·4
Diseases of the digestive system	46·1	29·2	37·3	55·5	45·6	45·4	47·1	41·8	38·9	42·8	50·9	52·2	50·7	24·2	34·9
Peptic ulcer	11·7	11·7	12·5	9·5	9·2	15·3	10·8	4·8	16·1	7·7	13·8	18·9	23·3	5·1	9·3
Appendicitis	7·2	2·9	5·3	6·4	11·3	11·5	7·0	1·5	1·4	9·5	5·8	6·6	17·1	5·1	6·9
Cirrhosis of liver	5·0	—	3·5	7·1	4·2	2·6	—	19·8	—	6·3	4·6	6·5	—	—	—
Chronic nephritis	23·6	25·8	23·5	26·3	28·3	18·8	19·4	30·2	28·3	15·7	24·4	15·9	11·3	13·1	32·4
Suicide	21·1	22·5	16·9	34·8	24·4	30·5	13·7	27·1	20·3	19·4	11·7	11·6	12·4	36·4	22·0
Accident	102·6	95·7	96·3	93·4	108·1	96·1	96·2	122·9	103·3	77·3	106·4	100·2	96·8	249·1	93·5

TABLE 11 —*Standardized Mortality (C.M.F.) of Coal Mine Hewers and Getters, aged 20–65 years, in various parts of the Country from certain selected Causes, compared with that of the same Occupation in England and Wales taken as 1,000, 1921–23.*

	England and Wales.	Northumberland.	Durham.	Cheshire and Lancashire.	Yorkshire, West Riding.	Nottinghamshire.	Derbyshire, excluding the South Derbyshire Coalfield.	North Staffordshire Coalfield.	Staffordshire (excluding North Staffordshire Coalfield), Shropshire and Worcestershire.	Leicestershire, Warwickshire, and the South Derbyshire Coalfield.	Glamorganshire.	Monmouthshire.	Brecknockshire, Carmarthenshire, and Pembrokeshire.	Cumberland.	Gloucestershire and Somersetshire.
All Causes	1,000	885	878	1,182	1,039	886	827	1,082	1,007	813	1,067	984	1,210	1,023	871
Influenza	1,000	1,379	1,167	873	805	526	379	758	1,347	1,100	1,229	1,556	1,070	1,217	1,613
Tuberculosis (all forms)	1,000	882	762	1,401	1,200	825	660	935	895	752	998	900	1,722	407	689
Respiratory tuberculosis	1,000	881	762	1,471	1,211	849	614	903	912	764	999	824	1,703	397	555
Syphilis, &c.	1,000	1,087	992	946	1,021	1,249	1,100	1,058	722	892	1,299	784	656	552	116
Cancer (all sites)	1,000	1,200	899	1,135	984	920	825	1,206	1,194	1,107	898	999	834	1,076	602
Cancer of the stomach	1,000	1,155	1,037	1,201	934	556	779	1,023	977	1,321	926	1,284	719	1,991	407
Diabetes	1,000	839	1,268	571	1,286	643	1,143	—	1,821	1,196	661	1,196	2,018	2,500	1,839
Cerebral hæmorrhage, &c.	1,000	452	1,135	1,248	1,163	800	716	858	826	447	1,220	633	1,450	1,158	369
Diseases of the circulatory system	1,000	724	942	1,213	1,056	891	836	1,334	715	804	1,118	757	900	1,160	1,417
Diseases of the heart	1,000	743	917	1,073	1,051	845	838	1,381	776	815	1,193	832	1,062	1,218	1,545
Valvular disease of heart	1,000	1,004	977	1,142	1,145	625	799	1,688	640	701	1,043	862	1,181	674	1,324
Other heart disease	1,000	460	852	998	950	1,083	880	1,049	924	940	1,355	800	934	1,808	1,784
Diseases of the respiratory system	1,000	798	687	1,307	986	769	829	1,094	1,254	626	1,170	1,101	1,767	643	838
Bronchitis	1,000	673	549	1,395	832	757	919	942	1,263	478	1,437	877	1,970	682	936
Pneumonia	1,000	882	862	1,315	1,132	749	725	1,359	1,424	750	928	1,065	1,385	510	413
Diseases of the digestive system	1,000	633	809	1,204	989	985	1,022	907	844	928	1,104	1,132	1,100	525	757
Peptic ulcer	1,000	1,000	1,068	812	786	1,308	923	410	1,376	658	1,179	1,615	1,991	436	795
Appendicitis	1,000	403	736	889	1,569	1,597	972	208	194	1,319	806	917	2,375	708	958
Cirrhosis of liver	1,000	—	700	1,420	840	520	—	3,960	—	1,260	920	1,300	—	—	—
Chronic nephritis	1,000	1,093	996	1,114	1,199	797	822	1,280	1,199	665	1,034	674	479	555	1,373
Suicide	1,000	1,066	801	1,649	1,156	1,445	649	1,284	962	919	555	550	588	1,725	1,043
Accident...	1,000	932	939	910	1,054	937	938	1,198	1,007	753	1,037	977	943	2,428	911

TABLE 12.—*Standardized Mortality (C.M.F.) of Coal Mine Underground Workers, not Hewers or Superintending Staff, aged 20–65 years, in various parts of the Country from certain selected Causes,* 1921–23.

	England and Wales.	Northumberland.	Durham.	Cheshire and Lancashire.	Yorkshire, West Riding.	Nottinghamshire.	Derbyshire, excluding the South Derbyshire Coalfield.	North Staffordshire Coalfield.	Staffordshire (excluding the North Staffordshire Coalfield), Shropshire and Worcestershire.	Leicestershire, Warwickshire, and the South Derbyshire Coalfield.	Glamorganshire.	Monmouthshire.	Brecknockshire, Carmarthenshire, and Pembrokeshire.	Cumberland.	Gloucestershire and Somersetshire.
All Causes	1,203	1,106	1,106	1,257	1,148	1,291	1,107	1,020	984	748	1,503	1,168	1,200	1,347	832
Influenza	58·2	59·6	58·2	63·6	55·6	31·6	33·4	54·2	88·6	42·4	73·0	36·4	72·9	19·5	18·7
Tuberculosis (all forms)	151·4	177·8	162·8	150·7	146·5	183·6	151·3	149·2	84·7	131·9	155·1	115·4	152·7	121·3	111·4
Respiratory tuberculosis	138·5	161·3	141·2	140·8	137·2	143·6	139·3	142·7	78·7	131·9	149·2	112·8	115·6	121·3	103·3
Syphilis, &c.	23·4	30·8	19·4	23·8	11·7	27·9	9·3	9·6	16·7	—	34·5	27·7	19·4	25·9	14·6
Cancer (all sites)	126·1	128·5	108·3	112·1	129·8	172·7	123·5	173·1	164·4	119·0	148·9	112·8	94·7	160·3	100·4
Cancer of the stomach	40·5	45·2	39·5	38·2	37·6	36·1	30·4	82·5	26·3	21·2	48·5	22·0	55·3	75·1	31·0
Diabetes	10·4	9·5	13·4	5·9	11·7	19·3	8·0	—	8·9	4·5	10·2	11·1	7·4	—	15·5
Cerebral hæmorrhage, &c.	55·1	56·5	57·6	51·7	50·3	56·1	39·9	36·2	34·1	21·2	83·7	75·3	32·0	24·9	15·5
Diseases of the circulatory system	167·7	138·4	144·0	170·7	151·5	190·0	144·0	211·8	91·0	107·0	205·5	199·4	233·5	210·0	204·5
Diseases of the heart	144·2	129·5	121·0	143·0	131·6	172·2	124·0	184·5	65·9	107·0	181·4	159·5	198·4	185·2	173·4
Valvular disease of heart	78·0	72·8	76·6	77·0	85·1	109·7	54·8	120·3	26·3	32·6	80·8	74·4	92·9	84·7	73·0
Other heart disease	66·2	56·7	44·4	66·0	46·5	62·5	69·2	64·2	39·6	74·4	100·6	85·1	105·5	100·5	100·4
Diseases of the respiratory system	205·8	110·5	192·5	250·0	202·2	257·6	169·7	185·3	182·4	123·5	254·5	168·4	187·3	154·4	200·8
Bronchitis	77·4	31·1	71·9	106·8	63·5	108·7	44·0	80·8	60·1	32·6	105·6	66·2	74·3	75·1	30·1
Pneumonia	101·8	95·8	92·0	131·1	129·7	92·8	101·6	104·6	104·1	59·8	114·3	80·4	58·6	28·0	82·5
Diseases of the digestive system	65·1	70·3	63·5	67·5	52·2	21·9	64·0	78·8	53·3	42·5	68·4	108·5	19·4	126·2	15·5
Peptic ulcer	14·6	15·3	18·0	13·0	14·1	—	12·0	18·5	25·8	8·5	14·8	22·1	10·1	—	—
Appendicitis	7·5	4·9	5·5	11·4	2·6	3·6	18·7	18·7	9·3	—	8·1	5·8	—	51·6	—
Cirrhosis of liver	7·3	2·6	6·4	5·3	11·2	—	8·0	9·0	—	—	6·3	19·5	—	—	—
Chronic nephritis	29·4	29·6	28·7	39·5	25·9	8·2	39·9	31·1	20·7	—	35·4	13·2	11·8	25·4	31·8
Suicide	21·5	31·4	18·6	15·8	29·3	29·4	37·4	9·0	17·4	4·5	23·3	14·1	38·0	—	28·8
Accident	168·2	105·0	117·4	158·6	172·5	154·2	145·5	—	136·1	71·1	268·7	180·5	243·4	395·4	30·1

TABLE 13 - *Standardized Mortality (C.M.F.) of Coal Mine Underground Workers, not Hewers or Superintending Staff, aged 20–65 years, in various parts of the Country from certain selected Causes, compared with that of the same Occupation in England and Wales taken as 1,000, 1921–23.*

	England and Wales.	Northumberland.	Durham.	Cheshire and Lancashire.	Yorkshire, West Riding.	Nottinghamshire.	Derbyshire, excluding the South Derbyshire Coalfield.	North Staffordshire Coalfield.	Staffordshire (excluding the North Staffordshire Coalfield), Shropshire and Worcestershire.	Leicestershire, Warwickshire, and the South Derbyshire Coalfield.	Glamorganshire.	Monmouthshire.	Brecknockshire, Carmarthenshire, and Pembrokeshire.	Cumberland.	Gloucestershire and Somersetshire.
All Causes	1,000	919	919	1,045	954	1,073	920	848	818	622	1,249	971	998	1,120	692
Influenza	1,000	1,024	1,000	1,093	955	543	574	931	1,522	729	1,254	625	1,253	335	321
Tuberculosis (all forms)	1,000	1,174	1,075	995	968	1,213	999	985	559	871	1,024	762	1,009	801	736
Respiratory tuberculosis	1,000	1,165	1,019	1,017	991	1,037	1,006	1,030	568	952	1,077	814	835	876	746
Syphilis, &c.	1,000	1,316	829	1,017	500	1,192	397	410	714	—	1,474	1,184	829	1,107	624
Cancer (all sites)	1,000	1,019	859	889	1,029	1,370	979	1,373	1,304	944	1,181	895	751	1,271	796
Cancer of the stomach	1,000	1,116	975	943	928	891	751	2,037	649	523	1,198	543	1,365	1,854	765
Diabetes	1,000	913	1,288	567	1,125	1,856	769	—	856	433	981	1,067	712	—	1,490
Cerebral hæmorrhage, &c.	1,000	1,025	1,045	938	913	1,018	724	657	619	385	1,519	1,367	581	452	281
Diseases of the circulatory system	1,000	825	859	1,018	903	1,133	859	1,263	543	638	1,225	1,189	1,392	1,252	1,219
Diseases of the heart	1,000	898	839	992	913	1,194	860	1,279	457	742	1,258	1,106	1,376	1,284	1,202
Valvular disease of heart	1,000	933	982	987	1,091	1,406	703	1,542	337	418	1,036	954	1,191	1,086	936
Other heart disease	1,000	856	671	997	702	944	1,045	970	598	1,124	1,520	1,285	1,594	1,518	1,517
Diseases of the respiratory system	1,000	537	935	1,215	983	1,252	825	900	886	600	1,237	818	910	750	976
Bronchitis	1,000	402	929	1,380	820	1,404	568	1,044	776	421	1,364	855	960	970	389
Pneumonia	1,000	941	904	1,288	1,274	912	998	1,028	1,023	587	1,123	790	576	275	810
Diseases of the digestive system	1,000	1,080	975	1,037	802	336	983	1,210	819	653	1,051	1,667	298	1,939	238
Peptic ulcer	1,000	1,048	1,233	890	966	—	822	1,267	1,767	582	1,014	1,514	692	—	—
Appendicitis	1,000	653	733	1,520	347	480	2,493	2,493	1,240	—	1,080	773	—	6,880	—
Cirrhosis of liver	1,000	356	877	726	1,534	—	1,096	1,233	—	—	863	2,671	—	—	—
Chronic nephritis	1,000	1,007	976	1,344	881	279	1,357	1,058	704	—	1,204	449	401	864	1,082
Suicide	1,000	1,460	865	735	1,363	1,367	1,740	419	809	209	1,084	656	1,767	—	1,340
Accident	1,000	624	698	943	1,026	917	865	—	809	423	1,598	1,073	1,447	2,351	179

TABLE 14.—*Standardized Mortality (C.M.F.) of Coal Mine Workers above Ground, not Superintending Staff, aged 20–65 years, in various parts of the Country from certain selected Causes, and Comparison with that of the same Occupation in England and Wales taken as 1,000, 1921–23.*

	C.M.F.							Ratio.						
	England and Wales.	Durham and Northumberland.	Cheshire and Lancashire.	Yorkshire, West Riding.	Derbyshire and Nottinghamshire, excluding the South Derbyshire Coalfield.	Staffordshire, Worcestershire, Warwickshire, Shropshire, Leicestershire and the South Derbyshire Coalfield.	Glamorganshire, Monmouthshire, Carmarthenshire, Pembrokeshire and Brecknockshire.	England and Wales.	Durham and Northumberland.	Cheshire and Lancashire.	Yorkshire, West Riding.	Derbyshire and Nottinghamshire, excluding the South Derbyshire Coalfield.	Staffordshire, Worcestershire, Warwickshire, Shropshire, Leicestershire and the South Derbyshire Coalfield.	Glamorganshire, Monmouthshire, Carmarthenshire, Pembrokeshire and Brecknockshire.
All Causes	1,183	1,873	1,343	1,087	885	990	1,253	1,000	1,583	1,135	919	748	837	1,059
Influenza	62·5	116·2	87·7	55·0	18·8	54·1	65·0	1,000	1,859	1,403	880	301	866	1,040
Tuberculosis (all forms)	183·2	283·8	200·4	148·5	128·9	178·1	189·4	1,000	1,549	1,094	811	704	972	1,034
Respiratory tuberculosis	159·9	230·3	185·0	137·1	120·4	153·0	168·6	1,000	1,440	1,157	857	753	957	1,054
Syphilis, &c.	25·0	52·6	14·0	10·8	22·8	17·3	34·9	1,000	2,104	560	432	912	692	1,396
Cancer (all sites)	113·2	180·0	108·9	105·7	105·6	109·6	106·6	1,000	1,590	962	934	933	968	942
Cancer of the stomach	31·8	55·0	24·8	22·0	32·1	23·7	35·3	1,000	1,730	780	692	1,009	745	1,110
Diabetes	9·6	15·6	14·9	5·8	6·2	9·5	7·9	1,000	1,625	1,552	604	646	990	823
Cerebral hæmorrhage, &c.	62·9	113·0	58·0	82·1	33·6	33·1	67·9	1,000	1,797	922	1,305	534	526	1,079
Diseases of the circulatory system...	197·9	395·8	230·1	158·5	119·3	168·0	185·5	1,000	2,000	1,163	801	603	849	937
Diseases of the heart	175·4	351·2	180·3	139·5	105·3	158·1	165·7	1,000	2,002	1,028	795	600	901	945
Valvular disease of heart	103·8	232·2	120·8	90·9	53·2	79·8	80·9	1,000	2,237	1,164	876	513	769	779
Other heart disease	71·6	119·0	59·5	48·6	52·1	78·3	84·8	1,000	1,662	831	679	728	1,094	1,184
Diseases of the respiratory system...	218·0	331·9	252·3	219·1	182·1	148·1	241·3	1,000	1,522	1,157	1,005	835	679	1,107
Bronchitis	88·5	113·9	120·3	97·1	87·3	55·4	105·8	1,000	1,287	1,359	1,097	986	626	1,195
Pneumonia	103·4	156·8	122·9	108·5	77·6	83·2	101·6	1,000	1,516	1,189	1,049	750	805	983
Diseases of the digestive system ...	54·7	64·0	96·3	43·9	57·8	57·1	41·1	1,000	1,170	1,761	803	1,057	1,044	751
Peptic ulcer	13·5	13·4	26·2	8·9	24·2	19·6	5·9	1,000	993	1,941	659	1,793	1,452	437
Appendicitis	5·7	8·3	4·5	5·9	3·2	4·0	—	1,000	1,456	789	1,035	561	702	—
Cirrhosis of liver	7·0	11·3	8·1	7·8	7·8	—	9·7	1,000	1,614	1,157	1,114	1,114	—	1,386
Chronic nephritis	33·7	64·1	28·9	36·6	21·3	20·1	33·7	1,000	1,902	858	1,086	632	[illegible]	1,000
Suicide	19·3	21·7	27·2	21·9	11·9	11·2	27·9	1,000	1,124	1,409	1,135	617	[illegible]	1,446
Accident	70·7	56·9	71·9	83·3	48·2	49·5	113·4	1,000	805	1,017	1,178	682	[illegible]	1,604

Though these tables are inserted for reference, not for comment, one or two points may be noted. High phthisis mortality for hewers and getters in West Wales and Lancs. is not accompanied by a high rate for other underground workers in the same fields. Of course, it is possible that local practice in the treatment of invalids may vary, the phthisical hewer being given lighter work in some fields which would decide his occupational description at death, whereas in these two fields this practice may not prevail. There is no such phthisis excess in any field for others underground as in the two mentioned for hewers. Respiratory disease is highest for hewers in West Wales, Lancs. and Staffs. (not North), and for others underground in Notts., Glamorgan and Lancs., but in West Wales, where the hewers excess is 77 per cent., this rate is below average by 9 per cent. for others underground. Mortality from suicide is in high excess for hewers in Cumberland and Lancashire, but low for others underground in the same two counties. The high mortality from accident both of hewers and others in Cumberland was due to exceptional circumstances, and must not be regarded as characteristic of that field.

Table 14 shows that the geographical distribution of the mortality of workers above ground noted in Table 9 applies to most of the chief causes of death considered separately, *e.g.*, phthisis, respiratory disease, and so far as the northern excess is concerned, cancer.

12. Iron Miners (underground, other than superintending staff) return a mortality at 20–65 less by 4·6 per cent. than the general average (Table B), so their record is definitely more favourable than that of coal miners (3·4 per cent. excess). Advantage, as compared with the general average, applies almost entirely to ages 35–65, younger and older men recording excess, which rises to 30 per cent. at 70 and over. This excess in later life is carried further than with coal miners. The only causes for which iron miners return important excess are influenza (175, 2085), and accident (168, 1992), both of which are also specially fatal to coal miners.

Table 15 compares the mortality of miners in two composite areas, (1) Cumberland and Lancashire and (2) Staffordshire and the North Riding (*see* pages 112 and 113). The latter two areas, though not continuous, have the common feature of dry conditions of working, and they have been tabulated in distinction to the former two, where wet conditions prevail, at the instance of the Mines Department. It will be seen that mortality is a little above average in the wet mine counties, and much below it in the dry. It is higher in the former than the latter at every age from 20 to 70, and, as pointed out on page xi, little stress can be laid on the appearance of approximate equality at ages over 70.

Table 16 shows that the causes of death chiefly accounting for the Cumberland and Lancashire excess are tuberculosis (especially non-respiratory) and respiratory disease, cerebral hæmorrhage, and Bright's disease, whereas for cancer and heart disease their rates are much lower. Jointly the former causes record a C.M.F. of 484·9 in the counties with wet conditions, as against 265·5 in those with dry. The accident rate is also considerably higher in the former case.

TABLE 15.—*Mortality at Various Ages of Iron Ore Mine Underground Workers, not Superintending Staff, in different parts of the Country, as compared with that of all Occupied and Retired Civilian Males taken as* 100 *in each case*, 1921-23.

——	Ages 20–65. (C.M.F.)	16–	20–	25–	35–	45–	55–	65–	70 and over.
Iron Ore Mine—Underground Workers, not Superintending Staff :—									
England and Wales	95·4	87	111	115	90	97	89	116	130
Cumberland and Lancashire	103·1	46	151	119	91	113	90	126	154
Staffordshire and Yorkshire (North Riding)	79·2	94	89	90	80	67	83	114	157

13. Tin and Copper Miners are found exclusively in Cornwall. Their mortality is excessive, their C.M.F. from all causes being 3$\frac{1}{4}$, and, for underground workers, 4$\frac{1}{3}$ times the average. But it should be noted that the Cornish mining industry was in an extremely depressed condition in 1921, as evidenced by reduction of the numbers so employed from 7,404 in 1911 to 3,046 in 1921. Cornish miners have for many years been migratory in habit to an outstanding degree, coming and going, especially between the Transvaal and home, as demand for their labour attracts them. It is probable therefore that in 1921 most of the able-bodied men who could do so had secured mining work elsewhere, or even,

TABLE 16.—*Standardized Mortality* (*C.M.F.*) *of Iron Ore Mine Underground Workers, not Superintending Staff, at ages* 20–65 *years, from certain selected Causes, and Comparison with that of all Occupied and Retired Civilian Males taken as* 1,000, 1921–23 (*see page lxv*).

—	England and Wales.		Cumberland and Lancashire.		Staffordshire and Yorkshire (North Riding.)	
	C.M.F.	Ratio.	C.M.F.	Ratio.	C.M.F.	Ratio.
All causes	954	954	1,031	1,031	792	792
Influenza	75·9	2,085	74·4	2,044	92·1	2,530
Tuberculosis (all forms)	158·2	892	220·9	1,246	103·7	585
Tuberculosis of the respiratory system ...	133·2	815	174·9	1,070	91·5	560
Syphilis, &c.	3·8	140	—	—	8·0	295
Cancer (all sites)	108·9	848	57·7	449	118·7	924
Cancer of the stomach	29·9	1,014	18·6	631	35·9	1,217
Diabetes	8·7	713	13·9	1,139	6·2	508
Cerebral hæmorrhage	43·7	973	62·7	1,396	32·2	717
Diseases of the circulatory system	110·6	727	71·4	469	136·5	897
Diseases of the heart	75·9	588	51·3	398	92·6	718
Valvular disease of heart	49·2	776	42·6	672	41·0	647
Other heart disease	26·7	407	8·7	133	51·6	787
Diseases of the respiratory system	141·6	933	173·7	1,145	121·6	802
Bronchitis	33·8	681	50·0	1,008	22·9	462
Pneumonia	61·8	726	63·6	747	68·8	808
Diseases of the digestive system	51·6	867	40·8	686	24·5	412
Peptic ulcer	9·8	620	8·7	551	6·0	380
Appendicitis	11·9	1,337	15·1	1,697	6·2	697
Cirrhosis of liver	3·0	313	—	—	—	—
Chronic nephritis	15·0	435	27·6	800	8·0	232
Suicide	21·2	872	26·3	1,082	—	—
Accident	98·2	1,992	99·4	2,016	66·2	1,343

if they were unable to do that, other work at home, leaving assignable to this employment only the greatly reduced number of more or less fit men still so employed in 1921, whose death-rate may have been far below that recorded on page 12, together with a proportionately large number of invalids unfit for employment, whose high mortality has inflated the rates for these workers to the figures there tabulated. Moreover, this effect may well have been increased by the death at home of men stricken with disease in South Africa.

The excess for underground workers is greater than for any other occupation dealt with. It is greatest in middle life, the rates for underground workers being over four times average at all ages 35–65. At 35–45 the excess reaches the terrible extent of 450 per cent., and in later life it remains very high, 149 per cent. at 70 and over. At ages under 25 their experience is very favourable, as far as the small numbers concerned permit it to be estimated, so it would seem that the class of recruit entering the occupation is good, and in no way accounts for their later mortality. Table D shows that almost all the causes there distinguished contribute to this excess of mortality, but chiefly tuberculosis and respiratory diseases. The phthisis death-rate is 12½ times the normal, and that from respiratory diseases 6·3 times. The bronchitis rate is 5 times the average, but that from pneumonia (broncho- and lobar) rather below it. Only 3 deaths were ascribed to this disease, but 27 (out of 525 in the whole population) to chronic interstitial pneumonia (*see* page xl). At 55–65 their death-rate from this cause was 1,675 per 100,000, or about 420 times the average for all occupations (*see* page 13). This may partly explain the low rate from ordinary pneumonia, the frequency of silicosis in these workers leading to the return under this heading of deaths which in other occupations would be ascribed to "pneumonia." But if the view is correct that phthisical patients rarely suffer from non-tuberculous lobar pneumonia, this may help to explain the lowness of the pneumonia rate. In any case, no other occupation in this country suffers to anything like the same extent from silicosis, or illustrates like these men the liability of this condition to lead to tuberculosis. The 912,126 coal miners (groups 7–11) suffered 60 deaths from chronic interstitial pneumonia, and the 2,110 underground tin miners 27 from the same cause. Their mortality was more than three times the average also from diabetes, cerebral hæmorrhage, chronic nephritis, myocardial disease, and suicide. Even cancer, which might not be thought likely to show any connexion with the special risk of tin mining, is in greater excess

88·5 per cent.) for this occupation than for any other except waiters (100·3) and cutlery grinders (93·8 per cent.). The latter occupation resembles tin miners in returning excessive, though not nearly so excessive, mortality from chronic interstitial pneumonia. Table F shows that underground workers in tin and copper mines suffer higher mortality than any other occupation (position 178), under no less than nine out of the twenty-three headings distinguished. These are, all causes, tuberculosis, phthisis, cerebral hæmorrhage, circulatory disease, heart disease, non-valvular heart disease, respiratory disease, and suicide. But to all these excesses the caution as to the doubtful applicability of the deaths to the population remaining in the industry applies.

14, 15. Stone and Slate Miners and Quarriers, on the other hand, show mortality slightly below average, and not excessive at any age, though tending to rise relatively in later life. Both, as might be expected, return a high rate from accident (172, 2,241, and 167, 1,961), and slate quarriers from respiratory tuberculosis (145, 1,594).

At the instance of the Department of Mines the mortality data for stone miners and quarriers have been taken out separately for certain counties (*see* pages 113 and 114), selected by the type of stone worked, and Table 17 compares the total mortality at each age of men working chiefly igneous rock (not granite), limestone, and sandstone.

TABLE 17.—*Mortality at various Ages of Miners and Quarriers of different kinds of Stone (represented by those working in certain selected counties—see pages* 113 *and* 114) *as compared with that of all Occupied and Retired Civilian Males taken as* 100 *in each case,* 1921–23.

—	Ages 20–65. (C.M.F.)	16–	20–	25–	35–	45–	55–	65–	70 and over.
All Stone Miners and Quarriers	94·6	100	108	90	101	84	99	108	123
Miners and Quarriers of Igneous Rock (not Granite)	57·3	—	79	36	91	57	46	98	125
Limestone Miners and Quarriers	91·8	149	139	102	93	93	82	88	121
Sandstone Miners and Quarriers	164·4	99	104	202	146	132	193	224	150

Mortality ranges in the order named from 57·3 per cent. of average for workers in igneous rock to 164·4 per cent. for workers in sandstone. The same order applies at every age from 25 to 65, and at all ages over 25 the rate for sandstone workers is much the highest of the three. But, although the C.M.F. for the latter exceeds the average by 64 per cent., that for stone quarrymen as a whole is more than 5 per cent. below average. This is due in part to the favourable figure for the selected limestone workers, who formed 37·3 per cent. of all stone miners and quarriers enumerated, but particularly to the exceptionally low rate of 573 for workers in igneous rock, which is lower than for any occupation dealt with except farm bailiffs (526) and Anglican clergy (561). These men form 12·9 per cent. of the whole, those working in the sandstone counties being 15·6 per cent., and those in unclassified counties 34·2 per cent. of the total stone miners and quarriers.

Table 17 demonstrates conclusively that quarrying is potentially a very healthy occupation, being so in fact where the nature of the stone is such as to give rise to no harmful dust, but that where siliceous dust is engendered it can be very unhealthy. Only eight of the 178 occupations yield a C.M.F. higher than 1,644.

Table 18 shows that mortality is below average for the igneous rock workers for every cause there dealt with except syphilis &c. (only three deaths), valvular disease of the heart, and accident. As it is probably safer to consider heart disease as a whole, we may say that with one insignificant exception all disease mortality rates are low for igneous rock workers. On the other hand all, except cancer, Bright's disease, cirrhosis of the liver, and cerebral hæmorrhage, are high for sandstone workers, their excesses from tuberculosis and respiratory disease being particularly great, as in other cases of special silica risk. But it has to be remembered, as in the similar case of sandstone masons (page lxxxii), that the counties taken as representative of sandstone working are all situated in the north of England, where total mortality from respiratory disease, though not from phthisis, is in great excess. (Statistical Review, 1925, Table XLVIII.) The sandstone quarrymen's pneumonia C.M.F. of 194·6 is exceeded by only three of the 178 occupations included in Table C. But their valvular heart disease C.M.F. of 157·8 (based on 19 deaths at 20–65) is higher than any recorded in Table C, in which the highest entry is that of 137·6 for cotton card and frame tenters, cotton strippers and grinders (130·8) coming next. The nature of these two occupations is not such as to suggest that physical strain can explain the exceptional mortality from this cause of the sandstone quarrier, which is not, moreover, shared by those working in other rocks. But a similar variation of mortality by kind of rock applies to accident, though to the untechnical reader it is not obvious why this risk should vary like total mortality with the kind of stone, from 129 per cent. of average for igneous rock to 325 per cent. for sandstone. Possibly accident insurance may contribute to this by reason of the tendency it induces to ascribe to accident deaths which would otherwise be referred to disease.

TABLE 18.—*Standardized mortality* (*C.M.F.*) *of Miners and Quarriers of various kinds of Stone, aged* 20–65 *years, from certain selected Causes, and Comparison with that of all Occupied and Retired Civilian Males taken as* 1,000.

	All Stone Miners and Quarriers.		Miners and Quarriers of Igneous Rock (not Granite).		Limestone Miners and Quarriers.		Sandstone Miners and Quarriers.	
	C.M.F.	Ratio.	C.M.F.	Ratio.	C.M.F.	Ratio.	C.M.F.	Ratio.
All Causes	946	946	573	573	918	918	1,644	1,644
Influenza	37·3	1,025	34·4	945	41·2	1,132	44·1	1,212
Tuberculosis (all forms)	164·1	926	94·5	533	172·1	971	343·9	1,940
Tuberculosis of the respiratory system ...	155·2	949	94·5	578	163·7	1,001	312·0	1,908
Syphilis &c.	22·0	812	36·3	1,339	12·4	458	30·0	1,107
Cancer (all sites)	82·7	644	58·5	456	85·2	664	90·0	701
Cancer of the stomach	24·9	844	12·3	417	20·3	688	15·5	525
Diabetes	8·9	730	—	—	8·0	656	24·2	1,984
Cerebral hæmorrhage	39·0	869	11·0	245	40·7	906	36·0	802
Diseases of the circulatory system ...	142·5	936	82·8	544	121·2	796	296·4	1,947
Diseases of the heart	117·0	907	82·8	642	89·1	691	246·1	1,908
Valvular disease of heart	74·7	1,178	70·5	1,112	58·6	924	157·8	2,489
Other heart disease	42·3	645	12·3	187	30·5	465	88·3	1,346
Diseases of the respiratory system ...	155·2	1,023	49·9	329	132·5	873	367·5	2,423
Bronchitis	46·1	929	—	—	40·4	815	109·0	2,198
Pneumonia	85·0	999	25·9	304	79·7	937	194·6	2,287
Diseases of the digestive system	48·2	810	11·8	198	46·4	780	64·6	1,086
Peptic ulcer	13·5	854	—	—	8·6	544	32·4	2,051
Appendicitis	7·9	888	—	—	4·5	506	16·7	1,876
Cirrhosis of liver	—	—	—	—	—	—	—	—
Chronic nephritis	14·7	426	11·0	319	12·4	359	28·8	835
Suicide	19·8	815	11·0	453	12·9	531	46·0	1,893
Accident	110·5	2,241	63·6	1,290	127·7	2,590	160·1	3,247

16. Cement Workers and Lime Burners (for definition *see* page 14) return the low C.M.F. (all causes) of 717, a rate bettered by only 13 other occupations. At no period of life does their mortality equal average, and at most it is well below it. Table F shows that their comparative position varies greatly with cause. Besides being 14 for mortality from all causes it is 1 for cerebral hæmorrhage and appendicitis and 2 for myocardial and total heart and circulatory disease. But it is 153 for peptic ulcer, 157 for diabetes, and 161 for accident, with corresponding C.M.F. ratios of 1,646, 1,656, and 1,572 (Table D). This extreme variability is not accounted for by small numbers, as the group included 8,645 men.

17-22. Makers of Bricks and Pottery.—These six occupations comprise two which may be regarded as healthy, brick makers (53, 926) and brick and tile kiln and oven men (37, 878), and three which must be classed as very unhealthy, earthenware and china kiln and oven men (172, 1830), potters with their ancillary mill workers and slip makers (170, 1642), and pottery glazers, &c. (156, 1413), the sixth group of other miscellaneous workers in these products being of moderately high mortality (135, 1243). Brickmakers are of less than average mortality at all ages under 55, but later excess sets in which reaches a maximum of 46 per cent. at 70–. Potters &c. derive their high total rate chiefly from excess of mortality at 45–55 (71 per cent.) and 55–65 (91 per cent.), though their rate is above average at every age distinguished. The glazers and decorators form only a small body of men, about 2,500, but they represent also a much larger number of females (about 13,500), so that such light as the limited male experience available can throw upon the risk involved is of importance. Their total excess mortality of 41·3 per cent. is chiefly met with at ages over 45, at each of which the ratio is higher than at any lower age. The greatest pottery excess is that of the china and earthenware kiln and oven men, who are subject both to lead risk from glaze, and silica risk from the flint dust with which the ware is packed in the "saggers" which these men handle and fire. Their total C.M.F. of 1,830 is the highest but six in Table E. The class of man recruited for the work appears to be good, as mortality is below average at all ages under 35, but from 35 to 70 it is continuously in great excess—about double the average. Brick tile, &c., kiln and oven men are not subject to either of the special risks affecting the corresponding workers in china ware, and their C.M.F. of 878 is the lowest in the brick and pottery group. Yet after 55 their mortality exceeds average, the excess increasing with age, though that of 70 per cent. at 70 and over is presumably largely a matter of age distribution (*see* page xi). There remains the large miscellaneous group of other workers, whose moderate excess mortality at 20–65 of 24·3 per cent. is contributed to by each age dealt with.

As to the causes accounting for these mortalities, Table F shows that a number of bad positions under phthisis and respiratory disease are associated with the exposure to silica involved. Some of these, with the corresponding C.M.F. ratios from Table D, are as follows:—

Potters: Phthisis 173, 2750; respiratory disease 173, 2856; bronchitis 176, 5435; pneumonia 132, 1242; and, in addition, valvular disease 164, 1498; cirrhosis of the liver 160, 2240; and Bright's disease 158, 1728.

Earthenware and china kiln and oven men: Phthisis 167, 2243; respiratory disease 175, 2935; bronchitis 174, 4895; pneumonia 160, 1659; also cancer 169, 1564; and Bright's disease 167, 2026.

Pottery glazers, &c., do not show the same excess of mortality from phthisis—138, 1462—or respiratory disease—110, 1096—but excesses under other causes may be associated with the high lead risk which is stated in Table 7 to have been the direct cause of seven deaths. These include circulatory disease (171, 1641); cerebral hæmorrhage (173, 2318), and Bright's disease (172, 2304). Their high mortality from cancer (166, 1519) is noteworthy in the light of the view that lead is a preventive of cancer, and the same association may be noted for the china kiln and oven men, whose lead exposure, evidenced by 17 deaths in Table 7, has not prevented the high cancer mortality above noted. Glazers suffer excessive mortality also from cirrhosis of the liver (171, 2750), but as some compensation for the risks involved their position was unique amongst the 178 groups in that they suffered no mortality from accident.

Both groups of workers in brickmaking return low rates from digestive diseases, brickmakers 18, 684 (no deaths from appendicitis or cirrhosis of the liver) and kiln and oven men 2, 334 (no deaths from cirrhosis of the liver). Brickmakers share to some extent the bronchitis risk of other kindred occupations, their position in Table F being 152 (ratio 1994).

23, 24. Skilled Glass Workers.—The reason for restriction of the scope of this and other similar headings to skilled men is lack of definitiveness and precision in the occupational description of the unskilled. If a man is described as a teazer or lamp-glass blower the nature of his work and in a general way the conditions under which it is carried out are known. He can be assumed, for instance, to be subjected to great heat. But if he is returned as a glass-works labourer, very little is known of the conditions of his work, which may be carried on in the open air or in the glasshouse. The three groups in which glass workers have been dealt with in the present report are meant to cover (1) all workers who can be assumed to be subject to the intense heat of the glasshouse—skilled glasshouse workers, group 23; (2) one special section of these men, glass blowers by the traditional method, *i.e.*, using the mouth and not a machine for the supply of air required, group 23A; and (3) other skilled glass workers, group 24, who may be seen from the Classification of Occupations, Census 1921, to be mainly workers in cold glass—engravers, cutters, bevellers, optical workers, &c.

Table B shows considerable excess of mortality for each of the three groups, 24·4 per cent. for glasshouse workers, 31·4 for blowers and finishers, and 41·7 for others. For all three mortality is low at 16–20, indicating that a good type of recruit is obtained for this trying work, and above the mean at every subsequent age, with large excess in later life both for blowers and other glasshouse workers.

The most remarkable fact brought out by Table F for these men is their exceptional mortality from diabetes. This was higher (178, 3795) for blowers and finishers than for any other occupation, and next to them for glasshouse workers generally (177, 3590), while the diabetes position for other glass workers is 171, 2574, other occupations with higher diabetes mortality than the latter being tin and copper miners, total and underground, cotton blowroom workers, and publicans. The glasshouse diabetes deaths numbered 10, in a population of about 12,000, and six of these deaths were of blowers and finishers, so the other 5,000 (approximately) glasshouse workers, with four deaths, suffered much the same diabetes mortality (C.M.F. 37·9, ratio 3107) as the 7,000 blowers with six. The 9,429 other glass workers suffered five deaths from diabetes. In all cases the age chiefly affected was 55–65, at which 9 out of the total of 15 deaths for glass workers occurred. The remaining six deaths were distributed over the earlier ages, none occurring after 65. Corresponding excess was recorded in 1890–92, but not in 1900–02 or 1910–2 (*see* page xxxii).

Table F shows high positions for all three groups from phthisis (136–155), cancer, (147–165), respiratory disease (147–162), bronchitis (162–171), and suicide (154–167, ratio 1523–1716). The special liability of glasshouse workers to cancer of the skin is discussed on page xxix. The "other skilled" also suffer severely from chronic nephritis (157, 1632), and cerebral hæmorrhage (166, 1804), but glasshouse workers are not exceptionally affected.

25. *Chemical Workers* return a light mortality experience, with an all causes position in Tables E and F of 37. The corresponding C.M.F. ratio in Table B is 87·8, mortality being below average at all ages except 20–25. Only eight occupations return a lower rate at 70— (Table E), but the doubtful significance (page xi) of this rate has to be remembered. The worst positions recorded in Table F are for accident (144, 1262), appendicitis (143, 1506), and cancer (137, 1245).

"Manufacturing chemists" returned excess mortality from cancer of the skin in 1910–12 (Medical Research Council, Report No. 99, page 33), but not from cancer generally. In 1921–23 chemical workers experienced excess mortality both from cancer generally, as already noted, and from skin cancer, but in both cases this excess is limited to ages under 65, later mortality being very light. This peculiarity applies also to cancer of the œsophagus, stomach, and undistinguished sites, mortality from all of which is in large excess, generally speaking, at ages under 65, and light or absent at higher ages. If the mortality of retirement corresponded with that of working life for chemical workers, their cancer death-rate would be amongst the highest recorded. Table 7 shows that chemical workers suffered three deaths from lead poisoning, the deceased in each case having been employed in the red and white lead and litharge industry.

26. *Makers of Paint, Oil, Soap, Grease, &c.*—Mortality is very moderate (C.M.F. 918), and neither its distribution by age nor by cause calls for comment, except that three deaths occurred from lead poisoning, all of paint makers (Table 7).

27. *Iron and Steel Smelters, Rollers and Converters.*—This is a composite body of men, largely skilled, but including 53 per cent. of "other" (*i.e.*, unskilled) metal workers (Code No. 279) engaged in the processes connected with iron and steel manufacture. The work is heavy and involves trying changes of temperature. That it requires a good class of recruit may be inferred from the low mortality of the picked men entering it (Table B) —90 per cent. of average at 16–20, and 68 at 20–25. After this age mortality tends to be a little above average. This feature is greatly accentuated in the case of the puddlers, a small fraction of these workers (5,447 out of 86,702, or 6 per cent.), distinguished for the first time in 1921, and selected, as group 27A, for separate tabulation, as subject to special risk. In their case general mortality rises from 2·5 per cent. excess over normal for group 27 as a whole to 25 per cent. excess, and a mortality ratio of only 52 per cent. of average at 16–20 is succeeded by ratios of 141 to 174 per cent. at ages over 45. The chief risk is from respiratory disease, this form of mortality being 45 per cent. in excess for group 27 as a whole and 110 per cent. for puddlers (Table D). Rates are high for both bronchitis and pneumonia, and, for group 27 as a whole, from influenza, but not from phthisis. The C.M.F. of puddlers from respiratory disease, 319·1, is exceeded by only 12 out of the 178 occupation groups, and that of 173·4 from pneumonia by six (Table F).

Their bronchitis record (167, 2685), though showing larger excess than that for pneumonia (172, 2038) is seen really to be of less significance, because of the greater range of mortality from bronchitis (see page xl). An excess of 168·5 per cent. from bronchitis is exceeded by eleven occupations, but an excess of 103·8 per cent. from pneumonia by only six. The puddlers' cancer C.M.F. of 205·0 is exceeded by only eight other occupations, being almost as high as that of gas stokers (205·2), who share their heat exposure and are subject to tar risk in addition. At ages over 55 they suffer 4–7 times the average mortality from skin cancer, but the gas stokers' excess is much higher still (page xxix). Cancer mortality is also in some excess for group 27 as a whole (119, 1156) but not nearly so much so as for puddlers.

28. *Metal moulders* are a large body of men, 61,329 at 20–65, forming, with the 37,589 foundry labourers (Table A), almost the whole of the 104,001 foundry workers. Their mortality, from all causes jointly, exceeds the general average by 13·7 per cent., all ages except 20–25 (95 per cent.) contributing to the excess, which, increasing with age, reaches 34 per cent. for those over 70 (Table B). The causes of death particularly fatal to moulders are as follows :—Influenza (150, 1412), cancer (135, 1238), respiratory disease (151, 1665), bronchitis (140, 1724), pneumonia (162, 1709). The similarity of this list to that for blast furnace workers will be noted, but the excess mortality from skin cancer is small compared with that for puddlers.

29. *Iron Foundry Furnacemen and Labourers.*—Conditions of work must be much the same for these men as for moulders except for greater direct exposure to furnace heat. Their total mortality is slightly less, and it does not increase with age relatively to the general average as does that of moulders. This may be because the unskilled man is more likely to change his work and does not undergo the lifelong exposure of the moulder to foundry conditions. Mortality is high for influenza (166, 1788), respiratory disease (161, 1966), bronchitis (144, 1821), and pneumonia (174, 2270); and low, as with other unskilled workers, for diseases of the digestive system (11, 617). Cancer mortality is little more than average. The most conspicuous risk seems to be that from pneumonia, shared by other foundry workers (moulders 162, 1709), brass foundry furnace men, and labourers (178, 2492); compare also puddlers (172, 2038), and gas stokers (154, 1586). Mortality from skin cancer is not excessive.

30. *Brass Foundry Furnacemen and Labourers* are subject both to the heat risk of foundries in general and to the special risk associated with molten brass. Their C.M.F. for all causes of 1,530 is exceeded by only fourteen other occupations (Table E). At 16–20 their mortality is three times average, but afterwards its highest ratio is 202 per cent. at 35–45. Mortality after 65 is not high, and the explanation of instability of occupation suggested for the same feature in the case of iron foundry furnacemen, &c., may apply here also. The moulder (who in this case includes the " brass caster "), is a skilled man, who remains in the occupation, but the labourer is not, and probably changes his work if he finds it does not suit him. Brass moulders are included with other metal moulders in group 28, but their numbers (not separately recorded) are probably too small to affect its mortality much. Table D shows that brass furnacemen suffer exceptionally high mortality from most causes. The following high mortality positions are recorded in Table F :—Influenza, 177 (cutlery grinders alone returning a higher rate); phthisis, 164; cerebral hæmorrhage, 168; myocardial disease, 156; bronchitis, 151; pneumonia, 178 (*i.e.*, the highest mortality of the 178 occupation groups in this table); and digestive diseases, 152 (peptic ulcer 156, appendicitis 165, cirrhosis of the liver 150). The brass founder's ague, from which these men suffer, and which is characterised by shivering, vomiting, and acute depression, may conceivably help to explain the high mortality from digestive disease. Their maximum rate from pneumonia may be due as well to the fumes of oxide of zinc to which the characteristic " ague " is attributed as well as to the conditions conducive to this disease shared with other foundry workers. Mortality from influenza, phthisis, pneumonia, respiratory disease in general, cerebral hæmorrhage, and appendicitis is shown by Table D to be over double the average, and that from bronchitis almost double.

31–34. *Smiths, Metal Machinists, Fitters, and Boilermakers and their Labourers* are all occupations of slightly less than average mortality, presenting no outstanding rates at any age, or from any cause.

35. *Brass Finishers and Turners*, though working with cold metal, present mortality features somewhat similar to those noted for the brass furnacemen. Their total mortality is 29·3 per cent. above the average, exceeding it at every age except 16–20, but chiefly at 35–55. The causes from which their mortality is highest from the point of view of Table F are—influenza, position 158, phthisis 163, cancer 159 (cancer of the stomach, 173), bronchitis 142, pneumonia 152, peptic ulcer 154, and cirrhosis of the liver 145. Thus their mortality from cancer of the stomach was exceeded by that of only five other occupations. The high cancer rate is not shared by brassfounders, but phthisis and respiratory and digestive diseases are notably high for workers in both hot and cold brass. Exposure to dust during processes of sand grinding and polishing may contribute to the respiratory disease of the latter.

36. *Coppersmiths* are not of high general mortality, exceeding average by 8·7 per cent., but they are specially subject to certain causes of death. Their phthisis mortality exceeds

average by 78 per cent, (Table D) being exceeded by that of only 25 other occupations (Table F). But the most characteristic feature of their mortality is an exceptionally high rate from two related causes, chronic nephritis and cerebral hæmorrhage, from each of which causes only four occupations return higher mortalities, the excesses for coppersmiths being 173 and 164 per cent. This may be due to lead risk (from soldering), although no death of a coppersmith from lead poisoning was registered in the three years. High mortality from Bright's disease was not recorded for copper workers in earlier reports, but deaths from lead poisoning have usually been reported.

37. Cutlers are mainly assemblers of manufactured parts into table and pocket knives, scissors, and other articles of cutlery, but they also do a certain amount of grinding and polishing, though the cutler's shop is always separated from the grinding room (Home Office Report on the Grinding of Metals, Macklin and Middleton, 1923). They are thus presumably subject in some degree to the silica dust risk so fatal to metal grinders, especially in the cutlery trade. Their C.M.F. from all causes is 28 per cent. above average, the excess falling mainly on ages 35–55. This moderate excess must not be compared with that of 63 per cent. recorded for 1910–12, or with earlier rates, as the heading " Cutler " at that time covered all processes in cutlery manufacture, and so included the grinders, whose exceptional risk is dealt with below. The worst positions occupied by cutlers in Table F are for phthisis 168, valvular heart disease 161, accident 159, and pneumonia 153. In each of these cases, except accident, the position of the grinders (group 40) is worse, so the cutler's association with grinding may largely explain these excesses. The largest excess is that of 125 per cent. from phthisis, pneumonia, 56 per cent., coming next. Mortality from digestive diseases, 16 per cent. of average, is the lowest recorded for any occupation (page xli).

38. File Cutters.—This small occupation (1,425 men aged 20–65, Table A) has long been separately distinguished in these reports on account of its high mortality. Its C.M.F. from all causes is now 85 per cent. in excess of average, and is exceeded by those of only five other occupations. In 1910–12, the excess was even greater, 94 per cent., though the men then dealt with as file makers included many not subject to the special risk of the actual file cutter. The population dealt with, 4,384 aged 20–65, was correspondingly larger. And, in addition to the change in classification, rapid change is believed to be in progress in the processes of manufacture, which would in any case account for large differences between the present and previous returns. It may be that reduction of risk arising in this way has sufficed to neutralize the increase in recorded mortality which might otherwise have been anticipated from better segregation of the men exposed to special risk. Large excess is continuous from age 25 onwards, though the rates below this age suggest that the health of those entering the occupation is normal. Table F shows that the mortality from most causes is amongst the highest for the 178 occupations. Some of these positions are as follows:—Chronic nephritis 178, cerebral hæmorrhage 175, appendicitis 175, influenza 174, valvular heart disease 174, bronchitis 172, and phthisis 171. Table D shows that mortality is at least double the average from nearly all these causes, and from diabetes as well, and more than six times average from chronic nephritis. It might have been expected that mortality from myocardial disease (which is rather low) would have been high, in association with that from nephritis and cerebral hæmorrhage, rather than that from valvular disease, but ten out of twelve deaths from myocardial (' other heart ') disease occurred at ages over 65, and so are not taken into account in calculating the C.M.F. Mortality excess rises to extreme degree from certain causes at certain ages. That from phthisis is over four times average at 35–45 (7 deaths), and nearly seven times at 65–70 (2 deaths), while that from chronic nephritis is nine times the average at 45–55 (4 deaths), and 17 times at 35–45 (3 deaths). With the change in definition the numbers in the occupation have become too small to bear much detailed analysis, but whatever the degree of the significance of any one of the excesses quoted, taken singly, there can be no doubt as to that of the combination.

There was no death from lead poisoning, though the high rates from nephritis and cerebral hæmorrhage suggest the influence of lead, which has been a recognized factor in the past. In 1910–12 there were three deaths, but the population dealt with was three times as large.

39, 42. Gas Fitters and Plumbers.—These occupations have been tabulated separately because of difference in lead risk, the gas-fitter working with iron piping and the plumber with lead, though in both cases joints are made with lead. Table B shows that the total mortality of neither occupation presents any remarkable feature at any age, and Table F that the same may be said for causes of mortality at all ages, the worst positions recorded there being 163 for plumbers from chronic nephritis and 153 from cerebral hæmorrhage. The proportionate excesses for these two causes in Table D, 92 and 43 per cent., are the highest there recorded for either occupation. This conjunction of causes in chief excess is presumably connected with the lead risk to which plumbers are especially exposed. Table 7 shows that there were 14 deaths from lead poisoning amongst plumbers and 2 amongst gas and pipe fitters (group 39), the corresponding crude mortalities being 38 per million of all ages for gas and pipe fitters, and 98 for plumbers. The latter rate is exceeded only by those for pottery kiln and oven men, pottery dippers and painters, and painters and decorators, amongst the 178 occupation groups.

40. Metal Grinders return an excess of mortality in Table B amounting to 97·7 per cent., which applies in some degree to all ages, but chiefly to 35–70, at which ages it ranges from 80 to 141 per cent. Little significance attaches to the apparent approach to normal at ages over 70 suggested by excess of only 13 per cent., for this may be largely due to the relatively small numbers at the higher ages within the group (*see* page xi). But for grinders in the cutlery trade (group 40*a*) the C.M.F. excess amounts to 229·5 per cent., a figure exceeded only by that for underground workers in tin and copper mines. As the cutlery grinders form almost one-fifth of the whole, the high mortality of grinders is largely due to them, the C.M.F. for grinders not in the cutlery trade being 1,588. The special mortality of grinders in the cutlery trade—a Sheffield industry—is believed to be due to silica risk from the abrasive used, natural sandstone, whereas in other grinding processes this dangerous material is now largely replaced by less harmful substances, such as emery (alumina) and carborundum (carbide of silicon). Much depends also on the method in which the abrasive is used. The report referred to (page lxxii) states that the dust evolved from machine-grinding on wet manufactured wheels causes little danger to health.

Table F shows by comparison how high is the mortality even of metal grinders as a whole. Only three occupations in the table return a higher total rate. And all the separate cause rankings, with the one unimportant exception of peptic ulcer, show grinders as holding an unfavourable position. The worst are as follows: Phthisis 175, 4256; bronchitis 170, 3155; pneumonia 165, 1885; cancer 162, 1503; and influenza 160, 1635. Peptic ulcer and accident are the only causes not in excess for grinders in Table D. The low rate for accident, which applies in only slightly smaller degree to cutlery grinders, working on large sandstone wheels, is the more surprising as the bursting of these stones is a recognised risk for this occupation.

40a. Cutlery Grinders.—The excess mortality, 229·5 per cent. at 20–65, noted above applies to all ages except 16–20, at which a ratio of 64 per cent. in Table B suggests that the high mortality at later ages is not due to a poor class of recruit. At all ages from 25 to 65 it is questionable whether the mortality of these men is not really the highest amongst the 178 occupations compared, for it is exceeded, as is their C.M.F., only by that of tin and copper mine underground workers (Table E), to the probable inflation of whose rates reference has been made on page lxvi. If the Cornish miners' rates are in truth largely overstated from the causes there discussed, those for cutlery grinders must be regarded as highest of all at each age 25–65. Mortality is relatively highest in later middle life, reaching four times the average at 45–55, and over three times average at all ages 35–65. The causes of this excessive mortality are shown by Table F to be much the same as for grinders in general, the worst figures being as follows: Influenza 178, 2931; bronchitis 178, 7282; cancer 177, 1938; myocardial disease 177, 2834; pneumonia 177, 2439; and phthisis 176, 7878. Thus from none of these important causes were higher rates returned by more than two other occupations. The cancer position is remarkable in the case of an occupation not known to involve any special cancer risk, but the adjacent position (176) is occupied by another occupation of high silica but no obvious cancer risk—underground workers in tin and copper mines. These two occupations return the highest total and, except for waiters, the highest cancer mortalities of the 178. The cancer excess for cutlery grinders is confined to ages under 65 (but *see* page xi). There is heavy excess (66 per cent.) for cancer of the stomach, but unfortunately 12 out of the 19 cancer deaths fall under the heading of "other sites." There was no death from skin cancer. Some of the cause mortality rates reach fantastic dimensions at particular periods of life. That from phthisis is 789 per cent. of average at 35–45, 1,329 per cent. at 45–55, and 1,384 per cent. at 55–65; and the bronchitis rate between 35 and 70 varies from 573 to 845 per cent. of average. The greatest excesses for pneumonia are 4·76 times average at 45–55 and 5·79 at 70 and over.

41. Metal Polishers, &c.—As polishing may be looked upon as a modified form of grinding, so the mortality of polishers presents similar features to that of grinders in a somewhat lesser degree. Their record for total mortality is 160, 1443 (Tables D and F), and the worst figures for separate causes are cancer of the stomach, 177, 1963; influenza, 172, 1918; and pneumonia, 171, 2026. The phthisis rate is 2·12, and that for bronchitis 1·96 times average. So the special excess of mortality from respiratory disease and cancer just noted for the two occupations of chief silica risk dealt with—tin and copper mining and metal grinding—applies also to metal polishers, who may also be exposed to some silica risk from the nature of the abrasives used.

43. *Rivetters and their labourers.*—This is chiefly an outdoor occupation carried on under conditions involving much exposure to the weather, but little to harmful dust, in which respects it may be compared to agriculture. The C.M.F. from all causes exceeds average by 6·2 per cent., most ages returning moderate excess. No very bad rankings are recorded in Table F, that of 161, 1697 from syphilis &c. being the worst. There is also considerable excess (60 and 35 per cent.) from bronchitis and pneumonia, and slight excess (17·5 per cent.) from phthisis.

44. *Tinsmiths and sheet metal workers* return a C.M.F. from all causes 1·1 per cent. in excess of average, which calls for no special comment, either as to age or cause, except that, notwithstanding two deaths (Table 7) from lead poisoning (solder), there was no appreciable excess of mortality from either chronic nephritis or cerebral hæmorrhage.

45. *Gold, silver, and white metal smiths* return a C.M.F. from all causes slightly below average (961). Much the same ratio applies to most ages, but a mortality excess of 84 per cent. at 16–20 suggests that this may be selected, as a light occupation, by semi-invalids. The causes chiefly responsible for this excess, tuberculosis (particularly), heart disease, pneumonia, and appendicitis, are, on the whole, consistent with this hypothesis. Tables D and F reveal no cause mortalities calling for comment.

46. *Electrical engineers fitters and wiremen.*—Mortality does not depart far from average at any age, but is on the whole in slight excess (4·2 per cent.). Table F shows that it is not outstandingly high or low from any cause, the worst positions recorded being syphilis &c., 154, 1565; peptic ulcer, 146, 1544; cirrhosis of the liver, 138, 1479; and accident, 132, 1122.

47. *Makers of watches, clocks, and instruments* return death-rates much below the average at all ages over 35, the C.M.F. ratio for all causes being 80·4 per cent. (position 26). Mortality is very low from respiratory disease (8, 446) and accident (6, 181); but high from suicide (155, 1527).

48. *Tanners and leather dressers.*—This group includes the skilled tanyard occupations, the unskilled being excluded, as in other similar cases, because many are not subject to the characteristic tanyard conditions, and because of their greater liability to change of industrial surroundings. Total mortality is 11·1 per cent. in excess of average (Table B), this excess being widely distributed over life. Causes of death yielding high mortality include phthisis (139, 1507), and digestive diseases (150, 1336), amongst the latter of which peptic ulcer, ratio 1,772, and cirrhosis of the liver, ratio 1,865, yield larger excesses than any other causes in Table D.

49. *Leather Goods makers* are subject to a mortality lighter than average at all ages over 35 years, but under that age their death-rates are above normal.

The only cause showing any considerable excess for this group in Table D is valvular heart disease (ratio 1,303).

50–65. *Textile Workers.*—Certain features of the mortality of these men as a whole have already been discussed on pages xxxiii–vi.

50. *Wool Sorters.*—At ages under 45 mortality is considerably above the average, indeed at 20–35 there are only about 20 occupations out of the 178 which return a higher death-rate. But after 45 the rate is only about average, and the whole experience at 20–65 is summed up by 22·5 per cent. excess for the C.M.F. Mortality is particularly high from diabetes (175, 3475), suicide (177, 3214) and peptic ulcer (175, 3108). There is considerable excess from syphilitic diseases (171, 2041) and pneumonia (159, 1643), but little from phthisis or bronchitis.

51. *Cotton Blow Room Operatives* are engaged in the preliminary preparation of the fibre and are much exposed to dust. Their mortality is very high, the C.M.F. from all causes being 52 per cent. above average; indeed, there are only 15 occupations which experience

a higher rate. The excess applies to every age group, being lowest between 25 and 35, where it is 13 per cent., and ranging from 45 to 93 per cent. at other ages.

Their mortality position in Table E is consistently bad throughout life, that of 163 for the C.M.F. being very generally approximated to at the various ages. Their worst cause mortality figures are as follows :—Chronic nephritis, 176, 2983 ; cerebral hæmorrhage, 169, 2178 ; respiratory diseases, 171, 2432 ; pneumonia, 175, 2278 ; diabetes, 173, 3238 ; digestive diseases, 170, 1713 ; and suicide, 171, 2053. Against these may be set phthisis, 39, 750 ; accident, 12, 270 ; and one or two less important causes.

52. *Rag Grinders, Wool Willowers, &c.*, are a small body of men numbering 4,071 at all ages, and their mortality is correspondingly irregular. Their C.M.F. is in moderate excess (19·8 per cent.), each age rate except 16–20 and 25–35 being above average. Their worst cause mortality figures are cancer of the stomach 178, 2308; chronic nephritis 170 2238; cerebral hæmorrhage 169, 2178; and peptic ulcer 170, 2196. Their respiratory mortality is below average (71, 895), the pneumonia risk being low (25, 678), though that from bronchitis is considerable (135, 1575). The phthisis rate is a little over average (107, 1093). Their mortality from cancer of the stomach is the highest among the 178 occupations, and is over 2¼ times the average.

53. *Cotton Card, &c., Tenters* have the highest death-rate of all the textile occupations dealt with. Their C.M.F. is 60 per cent. above average, and there are only ten occupations with a higher general death-rate.

At ages under 25 the death-rates are low, so it may be presumed that entrants are healthy, but all later ages return excess, varying from 41 to 92 per cent.

Table F shows that the death-rates from many causes are amongst the highest for the 178 occupations. Outstanding positions, with corresponding C.M.F. ratios, are as follows :—Influenza 171, 1876 ; cerebral hæmorrhage 177, 3065 ; chronic nephritis 168, 2119 ; circulatory disease 175, 1914 ; valvular heart disease 178, 2170 ; pneumonia 173, 2181 ; peptic ulcer 177, 3589 ; and suicide 169, 1823. The cancer position is 155, ratio 1,420. The occupation is not a large one—4,448 men at all ages—but the numbers of deaths on which the mortality positions and ratios quoted are based are sufficient to afford reasonable significance to them, the smallest being 4 for suicide, and the conjunction of so many causes of exceptionally high mortality bears a significance for the occupation which cannot be mistaken. Health conditions are bad, and they appear to be bad generally rather than from the operation of any special occupational risk, so presumably the adverse conditions which transform the favourable experience at 16–25 into the high mortality at later ages do so by a general lowering of resistance to disease and deterioration of the various organs more or less alike.

54. *Wool and Worsted Card, &c., Frame Tenters* belong to the same census occupation groups (code nos. 353 and 363) as the cotton workers just dealt with, but are distinguished by the fibre carded, &c., which gives them a different assignment in the industrial tabulation (*see* Industry Tables, 1921 Census, Table 3). Their mortality is above average at all ages, the low mortality of the young cotton carders not being met with in their case. But the general excess as measured by the C.M.F. is only 37·3 per cent. as against 60·1 for the cotton carders, and 27 occupations return a higher mortality. There are no such extreme positions to be noted in Table F as for the cotton carders, the worst being 169 (ratio 1,620) for digestive diseases. But though they die less from respiratory disease they die more from phthisis than the cotton carders, their position being 144 (ratio 1,591) as against 98 (1,057). For the wool as for the cotton workers the death-rate from chronic nephritis and from cerebral hæmorrhage is high, but not so high for wool as for cotton, especially as regards cerebral hæmorrhage.

55. *Cotton Strippers and Grinders.*—These men, whose function it is to keep the wire "clothing" of the carding engines (which clean the cotton and arrange its fibres approximately parallel), clean and in good order, work largely in the carding room, and are subject to the dusty conditions there prevalent. In various respects their mortality bears a general resemblance to that of cotton carders. The C.M.F. from all causes, 1,396, is exceeded only by those for cotton carders and blow room operatives in the textile trades, and by 24 others of the 178 occupations (Table E). As with the carders a period of low mortality (20–45) is succeeded by large excess for the rest of life, but though the excess becomes much greater it starts later in life (45 as against 25) than for the carders. Their death-rate at 65–70 is exceeded only by that of underground tin and copper miners (Table E).

The worst disease positions shown by Table F are: Influenza, 176, ratio 2121; circulatory disease 164, 1524; valvular disease of the heart 177, 2063; respiratory disease 174, 2856; and bronchitis 177, 5579, of which five causes three have been noted above as specially fatal also to cotton carders. Indeed, the valvular disease mortality of cotton strippers and grinders is exceeded only by that of their working partners the carders. Bronchitis is a specially heavy risk for strippers and grinders (exceeded only in the case of cutlery grinders) and pneumonia for cotton carders. Both, as also wool carders, are subject to considerable accident risk. Although their mortality from respiratory disease is so heavy the strippers and grinders' position in regard to phthisis is good (50, ratio 796). This is the more surprising in view of the high degree of association generally between phthisis and bronchitis (*see* page xviii).

56. Cotton Spinners and Piecers.—As regards distribution of mortality by age these men resemble strippers and grinders (as also wool spinners) in displaying comparatively low mortality in middle life (25–45), succeeded by increasing excess as age advances. The general excess is considerable, C.M.F. 1,248. The excess here shown for cotton spinners over cotton weavers—1248 : 1048, or 19 per cent.—is greatly surpassed by that shown by certain returns for Blackburn, published by the local Medical Officer of Health, which suggest that the rate for spinners in that town has over a long series of years been more than double that for weavers. This exceptional Blackburn experience is not to be explained as a result of omission in the local returns to take account of the relative ages of the workers concerned, for the records on pages 36 and 38 show that weavers are on the whole much older men than spinners, and in fact their crude death-rate works out at 1466 per 100,000 living as against 1346 for spinners. In this matter the experience of Blackburn seems to be totally at variance with that of the cotton industry generally, thus raising a problem which can only be examined in the light of local conditions.

Table F shows that the spinners' most outstanding positions for the causes of death distinguished are:—Cancer, 173 (ratio 1,648) and cancer of the stomach, 166 (1,603). The rates for Bright's disease and cerebral hæmorrhage are also high, and, as with so many other textile callings, that for valvular disease (163, 1494).

The special proclivity of cotton spinners to cancer, to which attention has been recently directed by the Home Office inquiry into and report upon cancer of the scrotum and groin in mule spinners, is thus confirmed by the records for 1921–23. Their special proclivity to skin cancer is discussed on page xxix, in association with the records for other occupations similarly affected. But Table 5 shows that their cancer excess is by no means confined to the skin, excess being greater, amongst other sites, for those not characterized by social mortality gradation. Of the three groups of sites so affected, skin larynx and upper alimentary canal, the two latter show less excess for cotton spinners than any of the three groups of "unexposed" (Table 4) sites.

57. Wool and Worsted Spinners and Piecers.—The similarity in age distribution of the mortality of these men to that of cotton spinners has been already noted. But the sum is less, their C.M.F. of 1,103 comparing with 1,248 for cotton spinners. The worst cause mortality records for wool spinners are:—Chronic nephritis 175, 2896; cerebral hæmorrhage 149, 1412; appendicitis 173, 2607; cirrhosis of the liver 169, 2656; and cancer of the stomach 163, 1536. Total cancer is also in excess, 144, 1,278, though less so than for cotton spinners. There is some apparent excess from skin cancer, but the basis of two deaths is insufficient to make this necessarily significant.

58. Cotton Doublers Winders etc. suffer mortality in excess of average at every age, especially in later life, their C.M.F. being 1,236. But Table F shows their death-rate from no cause to be outstandingly high, the worst positions recorded being 162 for heart disease, and 158 for circulatory, valvular, and other heart disease alike. High mortality from diseases of the circulatory system (and from chronic nephritis and cerebral hæmorrhage) is, indeed, a very general feature of the textile trades (*see* pages xxxiii–vi).

59. Wool Doublers Winders etc. furnish a total mortality (C.M.F. 970) well below that of similar trades in the cotton industry, but oddly enough several of their records for the causes distinguished in Tables C and D are distinctly worse than any applying to cotton doublers. The worst are:—Appendicitis, 176, ratio 3,034; circulatory disease, 170, 1568; diabetes, 164, 2041; and suicide, 158, 1551. With a few exceptions, notably woollen weavers, the textile occupations tend on the whole to high suicide rates. The phthisis mortality of wool doublers (15, 510) is much the lowest amongst the textile workers.

60. Cotton Weavers.—At all ages under 55 mortality is below or about average, but, as with various other textile trades (spinners, strippers and grinders, etc.), it increases considerably in later life, in this case after 55. The general result is slight excess, expressed by a C.M.F. of 1,048. Next to wool doublers, cotton weavers return the lowest phthisis C.M.F. of all the textile trades (35, 731). Indeed, the only cause in Table F showing at all outstanding mortality is cerebral hæmorrhage (163, 1641). A similar ratio (1,651) for bronchitis yields a position of 138, showing that excess mortality of 65 per cent. from bronchitis is of far less significance than of 64 per cent. from cerebral hæmorrhage, forty occupations in the former case, and only 15 in the latter, returning higher rates.

The question whether the use of artificial humidity in weaving sheds, implying, as it does, high temperature, is prejudicial to health, is under special investigation by the Home Office, and at the request of that Department the deaths of weavers have been separately tabulated for two groups of towns, in one of which the majority of the sheds were "wet" (employing artificial humidity), and in the other dry. The towns dealt with and the results of the tabulation are recorded on page 115, and a comparison of the total mortalities at various ages of the two groups, and of their C.M.F.s from various causes, is made in Tables 19 and 20.

TABLE 19.—*Mortality at various Ages of Cotton Weavers employed in "Wet" Sheds and in "Dry" Sheds, as compared with that of all Occupied and Retired Civilian Males taken as* 100 *in each case,* 1921–23.

——	Ages 20–65 (C.M.F.).	16–	20–	25–	35–	45–	55–	65–	70 and over.
All Cotton Weavers	104·8	102	97	88	79	93	131	142	117
In towns where artificial humidity is used in the majority of the sheds* ...	106·5	131	67	132	84	104	116	161	124
In towns where artificial humidity is not used in the majority of the sheds†	83·4	111	118	70	65	63	105	135	101

* See note * on page 115. † See note † on page 115.

TABLE 20.—*Standardized Mortality* (*C.M.F.*) *of Cotton Weavers, aged* 20–65 *years, employed in "Wet" Sheds and in "Dry" Sheds, from certain Selected Causes, and Comparison with that of all Occupied and Retired Civilian Males taken as* 1,000, 1921–23.

	All Cotton Weavers.		Cotton Weavers in towns where artificial humidity is used in the majority of the sheds.*		Cotton Weavers in towns where artificial humidity is not used in the majority of the sheds.†	
	C.M.F.	Ratio.	C.M.F.	Ratio.	C.M.F.	Ratio.
All Causes	1,048	1,048	1,065	1,065	834	834
Influenza	39·3	1,080	55·3	1,519	14·2	390
Tuberculosis (all forms)	136·7	771	174·3	983	97·0	547
Tuberculosis of the respiratory system	119·5	731	156·4	957	63·8	390
Syphilis, &c.	16·6	613	18·1	668	8·6	317
Cancer (all sites)...	126·1	982	106·5	829	98·7	769
Cancer of the stomach	35·6	1,207	27·9	946	32·7	1,108
Diabetes	14·4	1,180	13·9	1,139	26·8	2,197
Cerebral hæmorrhage	73·7	1,641	62·1	1,383	48·4	1,078
Diseases of the circulatory system	190·7	1,253	110·5	726	245·8	1,615
Diseases of the heart	161·6	1,253	86·8	673	227·2	1,761
Valvular disease of heart	89·6	1,413	49·5	781	109·6	1,729
Other heart disease	72·0	1,098	37·3	569	127·6	1,945
Diseases of the respiratory system	163·1	1,075	210·7	1,389	73·7	486
Bronchitis	81·9	1,651	108·0	2,177	39·8	802
Pneumonia	70·1	824	83·4	980	33·8	397
Diseases of the digestive system	67·8	1,139	96·3	1,618	66·0	1,109
Peptic ulcer	15·8	1,000	18·4	1,165	13·6	861
Appendicitis	11·1	1,247	13·0	1,461	21·2	2,382
Cirrhosis of liver	2·5	260	4·5	469	—	—
Chronic nephritis	42·9	1,243	45·0	1,304	32·7	948
Suicide	33·5	1,379	32·9	1,354	15·7	646
Accident	11·0	223	12·5	254	25·9	525

* See note * on page 115. † See note † on page 115.

As the subject is still under consideration by the committee concerned, no comment on these figures would be appropriate here.

61. *Wool Weavers.*—At no age under 65 does mortality depart greatly from average, but in old age it is in definite excess, rising to 72 per cent. at 70–. The C.M.F., 1,082, is just a little higher than for cotton weavers. In contrast with the latter, phthisis mortality is rather high (115, 1162), but the case is reversed for respiratory disease, mortality from which is very light (positions, cotton 107, wool 21, ratios, cotton 1,075, wool 672). The worst disease positions revealed by Table F are for diabetes, 170 (ratio 2,566), circulatory disease, 161 (1,480), and valvular disease, 170 (1,666), but as against these we have pneumonia, 8 (471) and suicide, 6 (288).

62. *Weavers of Other Textiles* (other than cotton and wool). These men are few in comparison with cotton weavers, who form 76 per cent. of the whole, and fewer than the wool weavers. Their mortality is low at most ages—C.M.F. 888. Table F reveals no outstanding mortality from any cause, the worst records being, as so often with textile workers, chronic nephritis, 142, 1455; cerebral hæmorrhage, 157, 1463; and heart disease, 134, 1244.

63. *Hosiery Frame Tenters and Machine Knitters.*—This is the characteristic occupation of hosiery manufacture, accounting for nearly half the males engaged in production (and repair and maintenance of plant) in this industry (Census 1921, Industry Tables, Table 2). The census table quoted shows that it is the only textile occupation of any numerical importance in the hosiery industry. Mortality is below average at most ages, yielding a C.M.F. of 929. The only bad positions recorded in Table F are for cancer of the stomach, 170 (ratio 1,780), cirrhosis of the liver, 168 (2,625), digestive diseases generally, 118 (1,139), chronic nephritis, 133 (1,365), and suicide, 172 (2,263). The ratios for phthisis and respiratory disease are low (741 and 746).

64. *Dye Mixers and Dyers.*—Mortality is in considerable excess at all ages, but in great excess at none, there being close general approximation to the C.M.F. of 1,304. And, similarly, Table F records moderately high mortality from all causes dealt with, but outstandingly high from none, position varying from 96 (suicide) to 167 (influenza). The ratios in Table D vary in the same way from 930 for syphilis &c. (the only one below 1,000) to 2,004 for bronchitis. The record thus points more to a somewhat low general standard of health than to any particular occupational risk. There is no significant excess of mortality from skin cancer (*see* page xxix), though three deaths at 55–65 yield a rate three times the average at that age.

65. *Scourers, Calenderers and Finishers.*—Neither in its amount (C.M.F. 1,015), distribution by age, nor distribution by cause, does the mortality of these workers present any features calling for special comment.

66. *Cutters* (*hand*) *of Textile Goods and Clothing.*—Mortality is somewhat above average (C.M.F. 1,168), especially in early life, but after 35 most of the excess disappears (Table B). The deduction might be drawn that this light occupation attracts recruits of poor physique, unfitted for more strenuous callings, but in that case the early excess might be expected to apply also to tailors, which it does not, though the progressive change for boot repairers from high to low mortality as age advances suggests this explanation for a kindred occupation. As regards causes of death, the most striking feature is high mortality from phthisis (158, 1878). This, of course, supports the suggestion of Table B as to the health of entrants, but the excess is quite as great in late as in early life, so conditions of work must share responsibility. There is also moderate excess mortality from respiratory disease, and somewhat greater from chronic nephritis and cerebral hæmorrhage. Barristers alone return lower influenza mortality.

67. *Tailors* make up the pieces of cloth cut out by group 66 into the actual garments. Thus, their work is mainly sewing, by hand or machine, while to the cutter falls the higher function of design. Tailors are now largely females, and much of the work, especially in London, a great seat of the industry, is carried out in the workers' home. The mortality of tailors is less than that of cutters (C.M.F. 1,015 as against 1,168), the high rates of the latter at 16–35 not being shared by tailors, whose mortality is not in notable excess at any age.

Table C shows that the advantage of tailors over cutters is almost entirely accounted for by lower rates from phthisis and respiratory disease. The total cutters' C.M.F. excess is, as stated above, 153, and of this 74·7 is accounted for by phthisis and 46·8 by respiratory disease, or 121·5 together—about 80 per cent. Possibly more exercise in the open air, involved by their conditions of work, may help to account for the lower phthisis mortality of the tailor, but conditions vary greatly as between factory workers and the home workers engaged in the bespoke tailoring trade, making it very difficult to generalize.

68. *Hat Formers, Plankers, Stiffeners.*—These men, 4,761 in number, constitute much the most important occupation in hat manufacture. Table 2 of the Industry Tables of the 1921 Census shows that, excluding employers and managers, about half the males engaged in making felt and straw hats, the two chief branches of the trade, belong to this occupation. Sewers and trimmers come next in importance, but their work is chiefly in the hands of females. Table B may be said to record considerable excess of mortality at every age, as the absence of any deaths amongst the 365 youths aged 16–20 must be largely a matter of chance. At higher ages the excess varies from 29 to 95 per cent., the C.M.F. being 1,396. Mortality is high from most causes, particularly phthisis (152, 1735), cancer (172, 1619), cerebral hæmorrhage (161, 1532), circulatory disease (172, 1658), heart disease (173, 1850), respiratory disease (138, 1409), digestive disease (157, 1395), cirrhosis of the liver (166, 2510), and chronic nephritis (149, 1530). Deaths from cancer of the skin numbered 4, as against 1·08 to be expected at the rates for the occupied and retired population in general—an excess which appears to be probably significant.

69. *Bootmakers* (hand) are now almost entirely boot repairers, and are of high average age. Their medium mortality (C.M.F. 1,014) is made up of high, but gradually decreasing, rates at ages under 55 and definitely and increasingly low rates in later life. The high rates in early life may be accounted for by choice of this sedentary occupation by semi-invalids physically unfit for harder work. The circumstances of the time, when replacement of hand by machine work has lessened the number of young men taking up the trade, must, no doubt, accentuate this selective process. But whatever the physique of entrants the low mortality in later life speaks well for the health conditions of boot repairing. Tables D and F reveal no outstanding excesses of mortality from any cause. The most important is that from phthisis (128, 1307). The age distribution of the phthisis excess supports the hypothesis of selection of the occupation by the physically unfit, for excess occurs at all ages 16–70, but most of all at 16–20. And the excess for non-respiratory tuberculosis (three times average, Table C) is much greater than for respiratory, suggesting that youths suffering from spinal and joint, &c., tuberculosis tend to select this occupation.

70, 71. *Factory bootmakers* are divided into " clickers " (more or less equivalent to cutters in tailoring) and others. The total mortality is in much the same moderate excess (C.M.F.s 1,104 and 1,120) for both. For both, also, the rates are in chief excess at ages up to 35, coming nearer average later, but more so for clickers than others. Both the factory groups return considerably higher rates than the repairers at ages over 55. The most important causal mortality excess is, as with boot repairers, from phthisis (clickers 156, 1820; others, 157, 1821. This excess applies to all ages except 16–20 and 55–65 for clickers, and to all without exception for others. Mortality from other forms of tuberculosis is low in comparison. Though twice as high for others as for clickers, it is less than half as great for others as for boot repairers. So the suggestion derived from the mortality returns, that non-pulmonary tuberculosis may influence the choice of occupation for boot repairers, does not seem to apply to the excess mortality from tuberculosis (wide-spread throughout life) of factory bootmakers. The only other forms of mortality recording much excess are cerebral hæmorrhage (clickers 156, 1461; others 121, 1167—no corresponding excess for chronic nephritis) and circulatory disease (clickers 136, 1283; others 92, 1047).

72. *Millers* (*Grain*).—Mortality is low. The C.M.F. for all causes is 785, position 23. At ages under 55 the ratios are still lower, but after this age they approach or exceed average. The lowest cause mortality figures are for cancer (10, 688) circulatory diseases (14, 719), valvular heart disease (5, 393), peptic ulcer (4, 222) and chronic nephritis (5, 432). The only important excesses are for diabetes (128, 1221) and suicide (152, 1494).

73. *Bakers.*—The all causes C.M.F. is 864, and, except for an excess of 7 per cent. at 20–25, the death-rate is below average at every age. Table F records low or moderate mortalities from each cause, the worst records being 105, 1074 for suicide and 101, 1016 for diabetes, and the best, 16, 677 for digestive diseases, 20, 667 for chronic nephritis, and 26, 673 for cerebral hæmorrhage. The only causes of more than average mortality are phthisis, diabetes, and suicide.

74. *Brewers* numbered only 2;531, as only a minority of the men employed in breweries are properly so described, the brewer being a skilled man, employed in the direction of less

skilled labour. Mortality was more than one-third above average—C.M.F. 1,346—but, as is natural in view of the small numbers concerned, the age rates are very irregular. Mortality is in large excess from many causes. That from syphilitic diseases (mainly G.P.I.) is the highest for any occupation (178, 4808). Only two occupations, barristers and publicans, return higher rates for digestive diseases (176, 3133), while from appendicitis (177, 4674) the brewers' rate is higher than any but the barristers', and from cirrhosis of the liver (177, 8000) than any but the publicans'. The record for peptic ulcer is 173, 2633. Other causes of relatively high mortality are suicide (175, 2650), cerebral hæmorrhage (172, 2245), chronic nephritis (155, 1620), accident (162, 1582), and cancer (154, 1398). On the other hand, mortality from phthisis is low—29, 706. Brewers evidently suffer the consequences of good living, and phthisis is not one of these. Pneumonia mortality is very low (5, 445), which may seem surprising in view of the temptations to and evidence of alcoholism, but the three deaths under 65 on which the pneumonia C.M.F. is based prove on test insufficient to furnish a significant rate, the occupation being, as noted, a very small one too small, indeed, for the purposes of this Report. As to the general conclusion, however, that its mortality is excessive from many causes, the figures available leave no room for doubt.

75. *Cellarmen.*—Though not a large occupation (6,480 men), this has more than twice the numbers of the brewers. Exposure to alcoholic risk is similar, and the general character of the mortality much the same. Its excess is greater, the C.M.F. being 1,510, and every age rate above the average, especially those under 65. As for brewers, mortality is high from syphilitic diseases (161, 1697), cancer (175, 1801), digestive disease (172, 1857), cirrhosis of the liver (175, 4698), chronic nephritis (164, 1930), and suicide (162, 1621). To these have to be added circulatory disease (169, 1562), influenza (170, 1863), and phthisis (143, 1577). It will be seen that only three occupations (tin and copper underground miners, cutlery grinders, and waiters) suffered more from cancer. The only important excess distinguished in the tabulation for any site is that for the œsophagus (C.M.F. 44·4, ratio 4577, in contrast with stomach, ratio 885—*cf.* correlations quoted on page xxv). But there is large excess from cancer of undistinguished sites.

76. *Tobacco Factory Operatives.*—There is a C.M.F. excess of 15 per cent., irregularly distributed by age. Mortality records are bad for phthisis (160, 2002), diabetes (167, 2262), circulatory disease (158, 1426), and digestive disease (164, 1472). Contrast is provided by chronic nephritis (7, 470), and cerebral hæmorrhage (10, 528).

77. *Foremen and Overlookers (Wood Working).*—The exceptionally low mortality (position 5) of this occupation has been already discussed along with that of other foremen (page lv). The mortality recorded is below average at every age, falling at 35–45 to 34 per cent. of the general mean, but rising after 65 to over 90 per cent. This distribution of mortality, with maximum advantage in middle life, greatly lessened or entirely wiped out in old age, applies to other foremen groups also. Table D shows mortality as below average for every cause except chronic nephritis (131, 1322), but Table F shows outstanding mortality also from cancer of the stomach (position 171). This record is somewhat surprising. The rate for cancer of all sites is low (40, 843), and the basis of fact (almost 27,000 years of life and 16 deaths at 20–65) sufficient to give significance to the stomach cancer rate, yet its ratio is 1,793. There were 11 deaths at 55–65.

78. *Cabinet Makers.*—The C.M.F. of 1026 corresponds with age rates none of which differ from the average by more than 11 per cent. The distribution of mortality by cause is no more remarkable than that by age, the worst records being 128, 1218 for cancer and 144, 1342 for cancer of the stomach, and the best 22, 678 for chronic nephritis, and 36, 375 for cirrhosis of the liver.

79. *Carpenters, &c.*—The death-rate of this large class of workers (almost 300,000) is a little below average at every age, the C.M.F. ratio of 843 being closely adhered to throughout life. The distribution by cause corresponds, the worst position in Table F being 86 for appendicitis, and the best 30 for non-valvular heart disease. As already noted, carpenters and agricultural labourers are the only occupations whose mortality ratio does not exceed 1,000 from any cause in Table D, but the carpenters all causes ratio of 843 is considerably higher than that of the agricultural labourers (688).

80. *French Polishers.*—This is much the least healthy of the woodworking occupations dealt with, the death-rate being above average at every age after 25, with a C.M.F. of 1230. But though the substance polished is wood, the more active environmental influence may well be that of the polish. Whether this contributes to the mortality or not, this is probably

in part at least to be explained by the lightness of the occupation attracting recruits of poor physique, who would be less likely to become carpenters or sawyers. The greatest excess of mortality at any age, 98 per cent., occurs at 16–20, amongst youths who can have been but a short time in the trade, thus suggesting that it may be selected by semi-invalids desirous of light work.

Amongst the worst mortality records are phthisis (150, 1641), cancer (140, 1257), respiratory disease (134, 1336), peptic ulcer (169, 2184), and suicide (147, 1428). There is no significant excess of skin cancer (two deaths).

81. Sawyers and Wood Machinists.—These men resemble carpenters in experiencing light mortality at most ages (below average at all ages 20–65, C.M.F. 868) and from most causes. Their worst position in Table F is for cancer of the stomach (134, 1241) and their best for chronic nephritis (14, 588).

82. Upholsterers.—Here again the record is similar though the material worked in is, of course, entirely different. Generally favourable rates at all ages yield a C.M.F. of 864; and the only bad positions in Table F are for phthisis (123, 1262) and cancer (113, 1107), mortality being below average for every other cause (Table D).

83. Paper Makers.—This is another healthy occupation, with a C.M.F. of 761, and mortality below average at all ages over 25. The causal records are generally good, diabetes (148, 1500) being the chief exception.

84, 85, 87. Printers.—These three groups, hand and machine compositors, and printing machine minders and assistants, experience a mortality differing little from the average at any age except for an excess at ages over 70 for machine compositors so great as to suggest want of correspondence between the census and registration figures. Although much has been written of the liability of these men to phthisis, their returns suggest no excessive risk under this head, varying as they do from 121, 1247 for machine minders to 130, 1320 for machine compositors. There is no outstanding mortality from any cause, even the accident risk for printing machine staffs being small (52, 503). There is, however, a certain lead risk (page lii).

86. Photographers are chiefly employed in exclusively photographic businesses, although considerable numbers work for the printing industry, including under this the newspaper press, lithography, and process engraving (Table 2, Industry Tables, Census 1921). Mortality is not far from average at any time of life, and the C.M.F. of 882 resembles those for other printing occupations. Their worst causal records are for diabetes (156, 1631) and cirrhosis of the liver (156, 2021). Respiratory disease is distinctly low (19, 602), much more so than phthisis (77, 970).

88. Bookbinders, &c.—Mortality is high in youth, but after 25 does not depart much from average, the general result being a C.M.F. of 1098. Phthisis mortality is slightly lower than for printers, but the rate for cancer is high (164, 1505). The only other cause of noteworthy mortality is peptic ulcer (168, 2101).

89–99. The Building Trades.—These eleven groups comprise two, masons and slate masons, of notably high mortality, but for the remaining nine the rates are either about average or in one or two cases definitely below it. The lowest C.M.F. returned is that for foremen (732), the death-rate being low at all ages under 70, though less so as life advances. Their phthisis C.M.F. of 36·1 (ratio 221) is the lowest for any occupation, but they are subject, like builders in general, to high accident risk (170, 2089). In view of the considerations discussed on page lv the record for these as for other foremen must be regarded as doubtful.

89. Builders and Contractors (employers and managers) are of average mortality (C.M.F. 1005), *i.e.*, of considerably over average for the employing class. The rates returned are low in early life, but become high as age increases. They share the high accident risk of their employees, 143, 1247, and suffer generally from diseases of circulation and digestion—circulatory diseases, 125, 1202; cerebral hæmorrhage, 155, 1445 (chronic nephritis, 140, 1441); and digestive diseases, 128, 1178. Their cirrhosis of the liver record is 130, 1281; and that for diabetes, 125, 1213. The general picture suggests good living as a factor in builders' mortality.

91. Bricklayers (C.M.F. 854) are of less than average mortality at every age, and from almost every cause. Although their accident rate is below average (ratio 957) it is above that of most occupations, the position being 115. This is the highest accident position (lowest rate) amongst the building trades, as slate masons (position 11) are exempt from the builders' accident risk.

92. Plasterers (C.M.F. 1011) are of average mortality, generally speaking, throughout life. They share the accident risk of the building trade (138, 1189), and have a bad record for cancer (142, 1266), and in a less degree for respiratory disease (119, 1165) and chronic nephritis (120, 1246).

93. Slaters and Tilers form a small occupational group (5,369 men at all ages), and their death-rates at ages are irregular, but with a general tendency to relative increase as life advances. The C.M.F. is 1037. Mortality is high from cancer (158, 1434), accident (155, 1462), and pneumonia (139, 1328).

94. Masons, Stone Cutters and Dressers.—Death-rates do not exceed average up to 35, but are high later, the C.M.F. being 1390, a rate exceeded by only 25 occupations. The most outstanding risks are from phthisis (161, 2032) and bronchitis (152, 1994), but mortality from most causes exceeds the average.

The deaths of stone masons have been tabulated by counties according to the kind of stone mainly worked, and the following tables show the extent and causes of the mortality of masons working in limestone and sandstone respectively. The facts on which these tables are based will be found on page 116. The numbers available for workers in igneous rock (*see* page lxvii) were too small to warrant separate presentation.

TABLE 21.—*Mortality at various Ages of Masons, Cutters, and Dressers of different kinds of Stone (represented by those working in certain selected counties—see page* 116) *as compared with that of all Occupied and Retired Civilian Males taken as* 100 *in each case.*

	Ages 20–65	16–	20–	25–	35–	45–	55–	65–	70 and over.
All Stone Masons, Cutters, and Dressers ...	139·0	100	94	93	140	161	143	127	114
Limestone Masons, Cutters, and Dressers...	119·7	105	55	105	129	143	113	100	111
Sandstone Masons, Cutters, and Dressers...	206·8	192	30	67	185	251	250	215	119
Others	118·1	60	138	98	121	126	115	110	113

The great excess of mortality for sandstone masons corresponds with that noted on page lxvii for sandstone miners and quarriers. But it should be noted in the one case, as in the other, that the sandstone counties (Cheshire, Lancashire and the West Riding) are all situated in the north of England, whereas the contrasted limestone counties are scattered over all parts of the country. In view of the great excess of mortality in the north over that in other parts of England, this fact suffices in itself to account for a considerable proportion of the sandstone excess. On the other hand, the sandstone masons' C.M.F., 2068, may somewhat understate their mortality, as the usual close accord between it and ratio of actual to "expected" deaths is not found here, the ratio, 226 per cent., being considerably higher than 206·8. The sandstone workers' excess is confined in the main to those ages (over 35) at which the mortality of masons in general exceeds the average. The excess for masons as a whole is evidently much influenced by that for sandstone workers, who form 23 per cent. of the total, the remainder being made up by 24 per cent. in limestone counties and 53 elsewhere. But for sandstone, limestone, and other stone masons alike the table shows that mortality, generally below average in early life, exceeds it at all ages from 35 on. It may be inferred, therefore, that the influence of stone dust is subject to much delay. It is great, but slow in action. Moreover, it appears to be both greater and slower in action for masons (including cutters and dressers working in dusty sheds, etc.), than for quarriers, as may be seen by comparing Tables 17 and 21. The causes of mortality are compared for limestone and sandstone masons in Table 22.

Rates are higher for sandstone than for limestone workers from every cause distinguished (if heart disease is dealt with as a whole), except diabetes, peptic ulcer, and accident.

The causes chiefly in excess are phthisis and respiratory diseases, which are also in great, though not so great, excess for sandstone quarrymen (Table 18). But the bronchitis pneumonia ratio is very different, pneumonia mortality being much the higher for quarrymen and bronchitis for masons. In both cases the general features of the sandstone workers' mortality are those associated with silica risk in general; and it may be noted that both for quarrymen and masons, the small number of deaths attributed to chronic interstitial pneumonia is very much greater for sandstone workers than for the more numerous limestone workers.

TABLE 22.—*Standardized Mortality C.M.F. of Masons, Cutters and Dressers of different kinds of Stone, at ages 20–65, from certain selected Causes, and Comparison with that of all Occupied and Retired Civilian Males taken as* 1000, 1921–23.

—	All Stone Masons, Cutters and Dressers.		Limestone Masons, Cutters and Dressers.		Sandstone Masons, Cutters and Dressers.	
	C.M.F.	Ratio.	C.M.F.	Ratio.	C.M.F.	Ratio.
All Causes	1,390	1,390	1,197	1,197	2,068	2,068
Influenza	43·2	1,187	35·2	967	35·9	986
Tuberculosis (all forms)	363·4	2,050	313·7	1,769	615·3	3,470
Tuberculosis of the respiratory system	332·3	2,032	283·6	1,735	564·5	3,453
Syphilis, &c.	23·9	882	15·9	587	30·0	1,107
Cancer (all sites)	146·8	1,143	128·9	1,004	203·2	1,583
Cancer of the stomach	44·0	1,492	33·7	1,142	54·2	1,837
Diabetes	8·1	664	14·7	1,205	3·5	287
Cerebral hæmorrhage	58·9	1,312	54·2	1,207	95·7	2,131
Diseases of the circulatory system	184·2	1,210	167·4	1,100	253·3	1,664
Disease of the heart	159·8	1,239	151·5	1,174	199·4	1,546
Valvular disease of heart	79·0	1,246	67·0	1,057	121·7	1,920
Other heart disease	80·8	1,232	84·5	1,288	77·7	1,184
Diseases of the respiratory system	247·6	1,632	198·7	1,310	455·8	3,005
Bronchitis	98·9	1,994	60·0	1,210	235·9	4,756
Pneumonia	91·2	1,072	83·2	978	119·5	1,404
Diseases of the digestive system	65·8	1,106	49·6	834	83·3	1,400
Peptic ulcer	21·1	1,335	31·9	2,019	21·6	1,367
Appendicitis	5·6	629	—	—	—	—
Cirrhosis of liver	9·7	1,010	4·5	469	18·2	1,896
Chronic nephritis	40·9	1,186	46·3	1,342	47·2	1,368
Suicide	25·7	1,058	28·1	1,156	31·9	1,313
Accident	52·4	1,063	73·7	1,495	47·7	968

95. *Slate masons and workers'* mortality (C.M.F. 1596) is exceeded by that of only 11 occupations. It is in large excess at nearly every age and from many causes, especially phthisis (174, 3426) and circulatory diseases (176, 2139). But there were no deaths from diabetes, and mortality from digestive and respiratory diseases was low, as also from suicide and accident.

As of 2,596 working slate masons enumerated in 1921 the majority (1,332) were in one rural district in Caernarvon, Gwyrfai (as well as one-third of the slate quarriers), a recent report to the Welsh Board of Health by one of its medical officers, Dr. T. W. Wade, on the alleged high mortality from tuberculosis of the respiratory system among slate quarrymen and workers in this rural district, is largely applicable to the workers now under consideration. Dr. Wade finds large excess of mortality from phthisis in later life for the slate quarriers and workers jointly of Gwyrfai, greater for workers than quarriers. The present returns for groups 15 and 95 support this conclusion. In the following statement the phthisis and respiratory disease mortality, at each age dealt with, of slate quarriers and workers is stated as a percentage of that of the occupied and retired in general.

	20–65 (C.M.F.)	16–	20–	25–	35–	45–	55–	65–	70 and over.
Phthisis—									
Quarriers	159·4	—	39	141	122	185	327	638	142
Masons	342·6	—	92	311	283	372	689	886	853
Respiratory disease—									
Quarriers	70·3	—	—	—	47	103	81	96	101
Masons	75·7	579	—	—	63	75	106	194	203

"While the men engaged in the quarries are not subjected to much slate dust the men in the sheds are constantly inhaling it." These words, quoted from Dr. Wade's report, serve to explain why the phthisis mortality is more than twice as high for masons as for quarriers. The low rates shown for other respiratory diseases do not usually accompany large excess of mortality from phthisis, but most of the experience dealt with is derived from North Wales, and it may be that local standards of diagnosis and peculiarities of nomenclature affect the matter. If any local tendency exists to describe as tuberculous conditions which would elsewhere not be recognized as of this nature, it may be compared with the large excess of mortality ascribed every year to infantile convulsions in Welsh certification. It may be significant that considerable excess of respiratory mortality for slate workers is reported at ages over 65. At these ages the distinction between tuberculous and non-tuberculous bronchitis and pneumonia is notoriously difficult, and if North Wales differs from England and Wales in attributing a larger proportion of such deaths to the agency of the tubercle bacillus, it does so in company with the United States of America.

96. Platelayers (C.M.F. 920) and *97. Navvies* (C.M.F. 910) do very similar work, though that of the former is confined to the railways (and tramways), and have very similar mortality experience. In the case of each the rates are below average at most ages and from most causes, accident being a notable exception. The platelayers' position for this risk is 171, 2229 ; while for navvies the corresponding figures are 153, 1426.

98. Painters and Decorators suffer mortality differing little from the average at any age, but tending on the whole to exceed it. The C.M.F. is 1,074. By far their worst cause records are for chronic nephritis (162, 1904) and cerebral hæmorrhage (162, 1566). These excesses are doubtless associated with the lead risk to which the occupation is subject. Table 7 shows that of 150 deaths among the total population in the three years attributed to occupational lead poisoning, 63 were of painters, and from the same table it may be found that their age mortalities from this cause were 20–40 times the average.

99. Building Trade Labourers (builders', bricklayers', plasterers', masons', etc.) also experience mortality not far from average at any age—below it up to 35, and afterwards above. The C.M.F. is 1,060. Table F reveals no causal mortality worthy of note except the accident risk shared with the other building occupations (150, 1347). Cancer mortality is rather high (122, 1161), but the excess is less than for Social Class V (ratio 1229), to which these workers are assigned.

100. Rubber Workers.—Mortality is below average practically throughout life, but especially in its later stages, as expressed by a C.M.F. of 892. The worst cause records are for cancer (120, 1157), cancer of the stomach (135, 1244), and cirrhosis of the liver (163, 2365). Mortality from skin cancer was at about the average rate.

101. Drafters and Brushmakers.—Mortality is in large excess at all ages under 55, later approaching the average, so perhaps this light sedentary occupation attracts men of poor physique. The C.M.F. is 1320. The causes of death chiefly in excess are phthisis (170, 2376) and respiratory disease (153, 1703).

102. Shipwrights are men engaged in ship construction, who work in either metal or wood, or in both materials. (Those returned as metal or as wood workers are classified accordingly.) Their C.M.F. is 934, the death-rate being below average at all ages from 35 to 70. Their worst causal mortality records are for syphilis etc. (163, 1768), and accident (135, 1170).

103. Shipyard Labourers.—This group comprises all the unskilled workers in shipbuilding who could not be assigned as unskilled workers in the metal-working, woodworking, or painting sections. They experience excess mortality at every age under 70, and chiefly under 55. Their C.M.F. is 1,351.

Amongst many causes of mortality excess may be noted influenza (169, 1805), phthisis (146, 1602), syphilitic diseases (170, 2026), cancer, especially of the stomach (139, 1254), respiratory diseases (163, 2001), and accident (160, 1489).

104. Gas Stokers.—Mortality is high, C.M.F. 1,289, the excess chiefly affecting later life. It does not set in till 35–45, and thereafter steadily progresses with age. At 65–70 there are only two occupations of the 178, and at 70–, only one, with higher rates (Table E). Mortality is high from most causes, particularly influenza (164, 1747), cancer (171, 1598), respiratory diseases (150, 1644), and accident (145, 1278). The cancer excess applies especially to the skin (*see* page xxix), but although the C.M.F.s for the tongue œsophagus and stomach are either about or definitely below average (Appendix D), the rates for tongue and stomach are in great excess at ages over 65, those for the lip at 55–70, and those for undistinguished sites at all ages over 45.

105. Railway officials form a numerous body of men, and most are, no doubt, minor officials, so it is not surprising that their mortality record displays the peculiarities characteristic of foremen in general (see page lv). The C.M.F. is only 679, and the death-rate is below the average at every age over 20. Most of the cause rates are also low, two associated with prosperity—diabetes and appendicitis—forming the chief exceptions. For diabetes the record is 131, 1270, and for appendicitis 136, 1382. From no other cause does the recorded death-rate exceed the average. Some portion of this favourable experience may be attributable to the medical examination to which entrants into the railway service in this as in other capacities are subjected.

106—110. Other railway workers are also of low mortality, except porters, whose C.M.F. is 1,023, the rate for signalmen (622) being even lower than that for officials. This statement applies, for each occupation, to each age from 20 to 65, but its significance is no doubt affected by the physical selection and supervision required in the case of men on whose single-handed adequacy the safety of railway travelling depends. This may explain the specially low mortality of signalmen, who have to work so much alone, as well as the higher rate for porters, whose responsibility is less, so that the no longer fit signalman or shunter may become a porter. The tendency to increase of relative mortality in old age (Table B) may be due to withdrawal of the influence of this supervision, as well as to the general tendency towards approximation of mortality at this stage of life (page 123).

The quite exceptional rate for guards at 16–20 (over seven times average) seems to be due mainly to chance. Few men are guards so young, and the years of life at risk were only 462. But amongst these 154 individuals eight deaths happened to occur in the three years, of which 4 were due to tuberculosis and 2 to accident. At 20–25, also, tuberculosis was in (slight) excess for guards, but at all higher ages their rates were much below average. The consistently low mortality of railwaymen, other than porters, from every cause dealt with in Tables D and F can best be appreciated by observing their record in those tables. Not one of the four occupation groups concerned returns a high rate from any single cause, except shunters from accident (177, 3331), a rate exceeded only by that for conveyors of coal to the mine shaft. Even this excess, fully accounted for by the nature of the shunter's work, is approached by no other railway calling, though for all except officials (505) and signalmen (469) the accident ratio is over 1000. The only causes (in Table D) from which the mortality of locomotive drivers etc. exceeds average are diabetes and peptic ulcer; of guards, influenza and appendicitis; of signalmen, influenza, diabetes and cerebral hæmorrhage; and of shunters, syphilis etc., cancer of the stomach, cerebral hæmorrhage, non-valvular heart disease, bronchitis, and peptic ulcer. Porters and lampmen are not required to be, and evidently are not, so physically fit. They are alone in the railway service in suffering excess mortality (over average) from phthisis (113, 1150) and respiratory disease (100, 1039). Both these causes, as already seen, are more fatal to the porters' social class (IV) than to that of the other railwaymen (III). But, indeed, their rates from most of the causes distinguished in Table D, though in no case heavy, are higher than those of all the other railway occupations.

111. Livery Stable and Garage Owners and Managers &c. are surprisingly numerous (almost 40,000), and perhaps it is not to be wondered at, therefore, that, with a C.M.F. of 791, they share the low mortality of foremen in general. Low rates prevail at all ages under 70. The only causes from which mortality exceeds average are digestive diseases, suicide, and accident, the worst positions in Table F being appendicitis, 148 (ratio 1629), and suicide, 147 (1428).

112. Drivers of Horse-drawn Vehicles are nearly all engaged in the transportation of goods. There were 182,746 males so returned in 1921, as against 11,808 drivers of horse-drawn passenger vehicles, of whom only 3,866 were in private domestic service; so the "coachman" of former days has almost disappeared. Mortality for horse drivers is in consistent and considerable excess of average throughout life, the C.M.F. being 1,378—much higher than for any other road transport workers. Table A shows that mortality was highest for passenger drivers, whose ratio of registered to calculated deaths was 154, that of goods drivers (horse) being 136, and those of motor, etc., drivers, 86–89. Table D shows that the only causes therein distinguished from which the mortality of horse drivers does not exceed average are appendicitis and suicide. Table F shows that, while the relative position of these men is bad from almost all causes, it is worst for cancer, 157 (ratio 1432), respiratory diseases, 154 (1732), bronchitis, 156 (2044), pneumonia, 156 (1597), and accident, 156 (1465). It should, of course, be remembered that the mortality standard for the social class (IV) to which these men are assigned is above the general average for some of these causes, particularly accident and respiratory disease, but this consideration does not help to explain their excess in total mortality, for which the Class IV rate hardly exceeds average, nor in mortality from cancer, for which the class rate is below average. But the social class assignments are all individually open to criticism, being of necessity arbitrary; and if in this instance Class V would have been more appropriate, a good deal of the excess mortality of these horse-drivers may be accounted for by their social rather than their occupational environment.

113. Motor Drivers, who are chiefly men in the prime of life, return death-rates below average at all ages 20–70, their C.M.F. being 862. Their mortality is below average from almost every cause, as that of horse drivers is above it, the only causes in Table C for which their death-rate exceeds that of horse drivers being appendicitis and suicide. Their death-rate from respiratory disease is only half that of horse drivers.

114. Tram Drivers may be regarded as one variety of motor drivers, whom they greatly resemble in general mortality experience (C.M.F. 875). But it may be noted that their accident risk is very much less (ratio 260).

115. Omnibus and Tram Conductors.—Total mortality is just under average (C.M.F. 990), and from 20 to 70 the rates keep close to the mean. The causes of death in chief excess are phthisis (134, 1419), cancer (148, 1322), and appendicitis (166, 2213). As for tram drivers, the accident risk is very small (ratio 280).

116. Grooms and Horse-keepers are of over average age, their proportions (per 1,000 at all ages) being below those for all occupied males at each age under 35, and above them at all later ages (Census 1921, General Report, Table L). Their mortality does not differ much from average at any period of life, the general result being slight excess (C.M.F. 1,046). There is moderate excess of mortality from respiratory diseases (chiefly pneumonia), but not from phthisis, also from suicide and accident (accident position 126, but ratio only 1,034), but on the whole there is little calling for comment in their cause mortalities.

117. Bargemen and Boatmen are of over average age, their proportions (per 1,000 at all ages) being low at all ages under and high at all over 35. Their death-rate is in considerable excess at every age, the general result being a C.M.F. of 1,290. Causal mortalities are generally high, diabetes, digestive diseases, and suicide being the chief exceptions. The accident risk is very high (position 174, ratio 2,972). Of the 113 deaths from accident 77 were due to drowning.

118–120. Dock Labourers.—Of these stevedores and coal boat loaders and dischargers, about 5,000 and 7,000 men, have been tabulated separately from the main body of 93,000 "Other Dock Labourers." But the mortality characteristics of all three are very similar, the resemblance consisting in excess at all ages and from most causes. There is no age at which the death-rate of any of the three does not considerably exceed the general average, but excess is greatest, at all ages over 25, for stevedores, whose C.M.F. is 1,619, as against 1,231 for coal boat workers and 1,532 for others. Presumably the confined spaces in which the stevedore works in the holds of vessels increase his risk. And similarly large excess of mortality from most causes is the prevailing experience of all three groups, particularly from syphilitic diseases, cancer, circulatory and respiratory diseases (especially pneumonia) and accident. For these six causes the best position occupied by any of the three groups is 135 (ratio 1,277) by stevedores for circulatory disease. Phthisis might be added, but that excess for the coal boat men is slight (position 91, ratio 1,018). It is about 100 per cent. for stevedores and others. The antagonism between coal and phthisis, strongly manifested for miners in former reports, and still to some extent in 1921–23, seems to extend to these workers, in preventing large excess for them as for the others. The cancer excess does not appear to be specially related in a significant degree to any of the sites distinguished.

121. Messengers, Hall Porters, Lift Attendants &c. are chiefly boys, most being under twenty years of age. Mortality tends to excess at most ages, especially in early life (C.M.F. 1,200), and the distribution by cause of this excess, phthisis and valvular heart disease taking a prominent share in it, is consistent with the view that this may, as a light occupation, attract entrants of poor physique. The only causes of particularly low mortality, diabetes and appendicitis (positions 17 and 27, ratios 434 and 360), are fatal chiefly to classes more prosperous than those from which these workers are derived.

122. Porters are men of about average age. Their mortality exceeds the mean at all ages, especially the earlier, and their C.M.F. of 1,497 is exceeded by only 17 occupations. The excess is general, applying to every cause in Table D except diabetes, cirrhosis of the liver, and chronic nephritis. Amongst the heaviest excesses are those from phthisis and respiratory disease. In these respects porters conform to the characteristics of their social class (V).

123. Proprietors and Managers of Wholesale and Retail Dealing Businesses.—As about 80 per cent. of these men are engaged in retail distributive trade (Census 1921, General Report, page 113) they may be referred to as shopkeepers. Three groups have been distinguished, with a view to measuring the differences in mortality accompanying different conditions of retail trade. These are—(*a*) those whose trade is generally carried on under conditions involving for them and their assistants exposure to the open air (fish, meat, greengrocery and milk trades), (*b*) grocers, and (*c*) drapers. Together these three groups include just under half the total, proportions per 1,000 total shopkeepers being—Open shop, 229; grocers, 159; drapers, 109; others, 503. Corresponding proportions for shop assistants are 265, 235, 128, and 372 respectively. As such large proportions of the totals are outside the groups no correspondence between total and group figures can be looked for.

After considerable excess in early life (under 25) the mortality of shopkeepers keeps close to average at higher ages. But the rates at 16–20 seem to be overstated for all three groups. At this age the demarcation between dealing businesses and various other callings (*e.g.*, hawkers, newspaper sellers) must often be indistinct, with corresponding risk of want of correspondence between the census and registration data. The C.M.F. is 1,029. It is much higher (as also that of shop assistants) for men working in shops involving exposure to the weather (fish, meat, greengrocery, milk) than for indoor workers (grocery and textiles). There are no exceptions to this rule between the ages of 20 and 65. The causes from which mortality is shown by Table D to be in greatest excess for shopkeepers as a whole, are diabetes (ratio 1,484), digestive diseases (1,287), cirrhosis of the liver (2,042), chronic nephritis (1,287), and suicide (1,621). Each of these excesses applies to each of the three groups of shopkeepers except that from diabetes, which is confined to the food trades (ratios 1,828 for butchers, &c., and 1,770 for grocers, while that for drapers is 803). This distribution accords with the social incidence of diabetes mortality in later life (*see* Diag. 3), which also suggests association with abundance of food supply. Apart from the suicide excess, which may be attributable to business worries, the causes in chief excess are all of such a nature as to suggest good living as an important factor. Phthisis mortality is below average for each of the three groups (and above average for their assistants). Contrary to what might perhaps have been anticipated, mortality from respiratory disease is higher for the group of shopkeepers selected as subject to open-air conditions (butchers, &c.) than for either of the others, ratios for them and for grocers and drapers being 1,133, 792 and 790 respectively (Table D). The same statement applies to their assistants, the three ratios in their case being 1,361, 774 and 887, so the conditions of work in the exposed shop seem to entail a respiratory risk, which for butchers', &c., assistants is nearly double that for grocers' (ratios 1361 and 774).

124. Salesmen and Shop Assistants.—Mortality is lower at almost every age than that of shopkeepers, the C.M.F. of 973 comparing with 1,029. But the open shop (fish, meat, &c.) workers' rates are higher at every age over 35 than their employers', their C.M.F. of 1,280 being also considerably greater. The C.M.F. for drapers' assistants (1,069) is also considerably above that for their employers (941), but the excess in their case occurs earlier in life (20–55). There is little difference between the rates for grocers and their assistants (C.M.F. 955 and 932), but the assistants have lower rates at all ages over 45. So the elderly employee suffers in the open shop and gains in the grocery shop, as compared with his employer. The causes of mortality on the whole resemble those for shopkeepers. Diabetes is in excess for all, the C.M.F. for butchers', &c., assistants, being more than twice the average, and that for grocers' assistants almost twice. But for drapers' assistants the excess is under 30 per cent. So the same association of diabetes with the food trades may be noted for shop assistants as for their employers.

It may be noted from the above statement that as the mortality of assistants in fish, meat, etc., shops (124*a*) and in drapery shops (124*c*) forming together almost 40 per cent. of the whole number of shop assistants, is considerably above that of their employers, and the rate for grocers' assistants (124*b*) less than one-quarter of the whole, but little below their employers' rate, the rate for the unclassified assistants who make up the total must be very much lower than that for their employers. That this is so appears from the following statement of C.M.Fs. and age mortalities:—

	123 Shopkeepers.							124 Shop Assistants.						
	C.M F.							C.M.F.						
	20–65	16-	20–	25–	35–	45–	55–65	20–65	16–	20–	25–	35–	45–	55–65
a ...	1,175	486	462	485	726	1,289	3,094	1,280	283	381	442	810	1,485	3,498
b ...	955	1,105	391	354	480	1,118	2,668	932	252	324	416	731	1,016	2,170
c ...	941	556	322	352	585	1,033	2,586	1,069	288	374	400	729	1,307	2,604
Others ...	1,008	421	448	413	651	1,152	2,486	728	213	281	269	487	909	1,743
All ...	1,029	490	433	416	634	1,163	2,647	973	250	329	366	658	1,156	2,443

At each age distinguished mortality is shown as lower for the unclassified assistants than for any of the three classified groups. It is also lower at each age for unclassified assistants than for their employers. These facts seem to suggest possible understatement of mortality for unclassified shop assistants, which would presumably imply compensatory overstatement of the aggregate mortality for the three classified groups.

Excess of Mortality at an Earlier over that at a Later Age.—It will be noticed that mortality is shown as lower for shopkeepers at 25–35 than at 20–25, and at 20–25 than at 16–20. Corresponding reversal of the general rule of increase of mortality with increase of age is displayed only by the unclassified amongst the shop assistants, and only as between ages 20–25 and 25–35. In this respect shopkeepers display in special degree a tendency which applies to the total population of many countries, as is shown by their life-tables, and which has been shown by the Government Actuary in his recently published Life Tables for England and Wales, 1920–22 (Registrar-General's Decennial Supplement, Part I) to apply to the experience of both sexes as a whole in the rural districts of the Eastern Counties. It therefore appears that certain sections of the English population, geographical or occupational, display a feature which in many other countries applies to the total mortality experience, though it has never done so here. This being so it may be of interest to note which are the occupations so affected, and which are the causes of death chiefly responsible.

Scrutiny of the age mortality rates on pages 5–95 shows that the death-rate was higher at 16–20 than at 20–25 for the occupation groups bearing the following numbers—3, 6, 17, 21, 30, 45, 55, 62, 63, 80, 84, 95, 97, 105, 107, 108, 114, 115, 117, 118, 119, 123, 132, 146 and 151; and at 20–25 than at 25–35 for the groups numbered 4, 9, 10, 19, 20, 21, 24, 25, 26, 35, 39, 41, 44, 49, 51, 52, 56, 57, 58, 61, 66, 68, 72, 73, 76, 77, 78, 83, 85, 88, 93, 101, 104, 107, 109, 111, 114, 121, 123, 131, 137, 138, 139, 141, 142, 143, 144, 149, 154, 157, 160 and 162. The rate for 22,982 youths of 16–20 was higher than for 67,568 aged 20–25 in the same occupations; and that for 122,856 men of 20–25 than that for 321,928 of 25–35. The occupations included in these lists may be seen to be of a very varied nature, but shopkeepers form numerically much the most important single occupation concerned. When the causes of death are compared for the two age groups in each case it is seen that, as has generally been supposed, tuberculosis accounts for this phenomenon as between ages 20–25 and 25–35, though it does not account for the excess for age 16–20 over 20–25. For the selected occupations compared total mortality at 20–25 amounted to 454 per 100,000, and at 25–35 to 388. Of this excess of 66 per 100,000 63 was due to tuberculosis, the rates for the respiratory form being 175 at 20–25 and 120 at 25–35, and for other forms 22 and 14 respectively.

But the picture is quite different when ages 16–20 and 20–25 are compared. The total rate for the first is 438 per 100,000, and for the second 296, a difference of 142, of which tuberculosis accounts for only 15, the 16–20 rates for respiratory and other forms being 133 and 22, and those at 20–25 123 and 17. The remaining difference of 127 per 100,000 is made up as follows—accident, 45 (71–26); pneumonia, 22 (44–22); appendicitis, 10 (19–9); valvular disease, 7 (15–8); acute nephritis, 9 (no deaths at 20–25); miscellaneous nervous diseases, 8 (20–12); miscellaneous digestive diseases, 3 (6–3); and unclassified ("other") causes, 18 (39–21). It thus appears that while the feature in question at about age 25 is almost entirely accounted for by tuberculosis, the causes tending in the same direction at about 20 are very miscellaneous, accident being much the most important. This fact may be compared with Diagram 5 of the *Statistical Review* for 1925, which shows that mortality from accidental drowning is enormously and suddenly reduced between 20 and 25 years of age, so that the prudence required to avoid accident appears to be a faculty somewhat suddenly acquired at about this time of life.

While the facts noted above probably suffice to establish a variation with age in the causes responsible for the feature studied, the possible influence of ill-health upon the selection of occupation must be remembered. The actual decrease of mortality with increase of age in the selected occupations compared may not be typical, as regards the causes responsible for it, of such tendency in the same direction as applies to the population at large. This might also, of course, hold good for geographical sections of the population. No section of the population, indeed, occupational or geographical, which is subject to the influence of selective migration, can be looked upon as typical in this matter of a general tendency. Tuberculosis may account for the excess mortality of the selected occupations at 20–25, either because young men suffering from phthisis select these as suitable for them, or because of special occupational risk of phthisis resulting in early death, or for both reasons, but in neither case does the early excess represent the emergence of a general tendency. And in the same way similar early excess for the rural districts of the Eastern Counties may be accounted for by migration, either inward of invalids attracted by the "bracing" characteristics of their climate, or (and probably chiefly) outward migration of healthy adolescents, leaving those debarred from enterprise by disease to die at home. (See *Statistical Review* for 1923, Text, page 34.) The case is evidently different where a whole national population, not greatly affected by migration, displays the same peculiarity. In this case if tuberculosis mortality, as at present for females in England and Wales, reaches its highest point in early adult life, its relative importance amongst the forms of mortality at this time of life may suffice to impress this maximum upon the total mortality curve. But if, as for the male English population at present, there is no such early adult tuberculosis maximum, it is evident that the cause of the phenomenon must be sought elsewhere. Where, as in this country at present, the feature in question applies only to sectional populations, migration furnishes an obvious explanation, even though the causes accounting for the early excess in the selected populations may profitably be studied for the sake of the light they may throw upon possibilities elsewhere, and latent tendencies here.

125. Commercial Travellers.—Except at 16-20, when the numbers are small, mortality is slightly above average at every age, the C.M.F. being 1,108. The causes chiefly in excess bear general resemblance to those for shopkeepers, including diabetes (ratio 1,590), digestive diseases (1,407), cirrhosis of the liver (2,146), and suicide (1,514). But in addition to these excesses shared with shopkeepers, commercial travellers suffer heavily from syphilitic diseases (1,642), cancer (1,228—a considerable excess as compared with the class II ratio of 920), and appendicitis (1,989). It would seem that the temptations of the calling to intemperance in food and drink are not without effect upon its mortality. Their ratios for chronic nephritis (1,174) and cerebral hæmorrhage (1,107) are also in some, though less, excess.

126. Canvassers, Roundsmen and Van Salesmen.—Mortality is low, their C.M.F. being 877, and death-rates being below average at all ages over 35 and from almost all causes.

127. Costermongers, itinerant vendors of goods, working on their own behalf, instead of for employers like the canvassers, furnish an interesting contrast. Mortality is in excess at all ages, especially in middle life, 25–55, the C.M.F. being 1,660 as against 877 for canvassers. It is also in excess from almost all causes, especially phthisis (ratio 2,289), syphilitic diseases (2,284), and respiratory diseases (2,186). The ratio is higher for bronchitis (2,690) than pneumonia (1,979), but the significance of these excesses is much the same, the bronchitis position being 168 and that for pneumonia 169. Next to these causes come circulatory disease (1,551) and cirrhosis of the liver (1,573). Other excesses are quite moderate, but the only causes in Table D with ratios under 1,000 are diabetes (943) and appendicitis (607), both causes of low mortality for the social class (V) to which costermongers are assigned.

128, 129. Bank and Insurance Officials form the higher grades of the banking and insurance staffs, of which the majority is constituted by group 158a, bank and insurance clerks. It is therefore not unlikely that the tendency to magnification of importance in the census records of occupation, discussed as a possible factor in the consistently low mortality of foremen, may contribute to the advantageous position recorded for bank and insurance officials. The C.M.F.s are 603 and 585 respectively, yielding the positions of 4 and 3, lower rates being returned only for farm bailiffs and Anglican clergymen. In each case, as also for clergymen, the C.M.F. is a little lower than the ratio of actual to calculated deaths, the discrepancy being greatest for bank officials (603 and 66). This must be due in part at least to the fact that there is no recorded mortality for any of these three occupations in the first one or two age groups (16–20 and 20–25), population, if any, at such ages being naturally very small —a circumstance which applies to other professions as well as the clergy, and reduces the C.M.F. but not the alternative measure. But the close general correspondence of the two measures of total mortality, as shown side by side in the Abstracts, shows that danger of understatement of mortality by the C.M.F. from this cause must be slight.

Both bank and insurance officials share the Class I peculiarity of very low relative mortality in the earlier working years, which gradually increases with age to a rate much nearer the average in later life (Diag. 1). Table D shows that the only causes in excess for either occupation are digestive diseases and diabetes, the former as a whole only for bank and the latter only for insurance officials. The special incidence of both these forms of disease on the upper social ranks, presumably as the result of a generous food supply, is discussed on pages xxxi and xli. The cause in greatest excess for both groups is appendicitis, which also shows more than any other the upper social class excess characteristic of digestive and related diseases (Diag. 3). Mortality from phthisis, cancer, and bronchitis, all causes of the opposite type of social grading to diabetes and appendicitis, *i.e.*, increasing from above downwards, is extremely low for both groups; and no other occupation returns so low a rate as insurance officials from valvular disease of the heart, another extreme example of the same type. There is a curious contrast between the two groups as regards cirrhosis of the liver (bank officials, position 141, ratio 1,521, and insurance officials, position 56, ratio 521). But the six deaths at 20–65 in the former case are barely sufficient, and the three in the latter insufficient, to yield significant rates.

130. Insurance Agents and Canvassers.—In this case it is fairly obvious from Table A that many canvassers describe themselves on their census returns as agents or brokers, so the two lines are merged for present purposes. Mortality is excessive in early life, but the excess rapidly lessens as age increases, and after 45 disappears. Perhaps it may be inferred from these facts that this light open-air occupation attracts men of poor physique, who benefit as time goes on by its healthy nature. This surmise is supported by the phthisis mortality experience. At 20-65 this is high (position 142, ratio 1,569), but the excess is largely confined to early life. Under 35 it is very great, at 35–55 moderate, and after 55 phthisis mortality is well below the average. Mortality from respiratory disease is rather low (57, 815), and the only cause except phthisis in notable excess is suicide (144, 1,358).

131. Auctioneers.—The C.M.F. is 1,031, and mortality, generally speaking, about average throughout life. Its distribution by cause is very similar to that noted for bank and insurance officials, and especially for commercial travellers. Low phthisis and respiratory, and high diabetes and digestive disease mortality are features shared with Class I as a whole, but others shared with commercial travellers are high rates for syphilitic diseases (146, 1376), cirrhosis of the liver (161, 2302) and suicide (166, 1712), and a rate above the high Class I average for appendicitis (169, 2393).

Causes of Death affecting Business and Professional Men.—Probably the combination of causes just noted may be accepted as to some extent characteristic of business life (of moderate prosperity) in general. This may be tested by selecting certain occupations as representative of business life and examining their mortality from the causes discussed. The following six occupations have been used for such a test: Shopkeepers, commercial travellers, bank and insurance officials, auctioneers, and theatre, &c., proprietors. Mortality from each cause being classed as light or heavy according as it was less or more than that of the majority of the 178 occupations dealt with, the six business groups give the following results: phthisis, all light; respiratory disease, all light; diabetes, all heavy, except bank officials; digestive diseases, all heavy; appendicitis, all heavy; cirrhosis of the liver, all heavy, except insurance officials; syphilitic diseases, suicide (and chronic nephritis), four heavy, bank and insurance officials light. It is true that this distribution of mortality is largely that of the upper and middle classes in general, but a corresponding group of professional occupations (Anglican clergy, barristers, solicitors, medical practitioners, dentists, and engineers) conforms less closely to the type described for six of the above nine causes, equally for two, and to a greater extent for only one, suicide.

132 and 133. Civil Service and Local Authority Officials and Clerks.—Both groups are of less than average mortality at every age, the C.M.F. of civil servants being 739 and of the local officials 776. The causes of death met with are on the whole of the middle class type noted above, mortality from phthisis and especially respiratory disease being low for both groups, and that from diabetes slightly over average, but civil servants suffer less than the general population from all forms of digestive disease, and local officials only slightly more, and the death-rates of both from syphilitic diseases and from suicide are below average. Both groups are naturally of very diverse social position, as indicated by their inclusion in Social Class II, so it is natural that the causal distribution characteristic of Class I is less clearly shown by them than by either the business or the professional combinations just discussed.

134. Church of England Clergymen.—The C.M.F., 561, is lower than for any other of the 178 occupations in Table B, except farm bailiffs, the reliability of whose death-rates shares the suspicion attaching to those of foremen in general. So it may well be that the rate for the clergy is really lowest of all. It is, of course, like those for other registered professions, singularly free from uncertainty as to the comparability of deaths with population. In these cases every member of the calling is inscribed in a professional register, such inscription governing within narrow limits both the return of numbers living and of deaths. So the exceptional healthfulness of the clerical calling is attested by exceptionally strong evidence. It is displayed at all ages, though, as noted on page 121, the clerical advantage is lessened after 65, with the near approach of the natural termination of life. The causes of death are compared with those for other clergymen below.

135 and 136. Other Clergy.—These will, for convenience, be referred to as priests (R.C.) and ministers. Both resemble the Anglican clergy and social Class I in general, in returning very low mortality in early manhood, with subsequent gradual approximation towards the average, which, however, is never reached, as life advances. The C.M.F.s compare as follows: Anglican clergy, 561; ministers, 639; priests, 780. All three clerical groups manifest the middle class characteristic of low phthisis and respiratory mortality (both lowest for ministers), but ministers alone of the three have more than the average death-rate from digestive diseases (their appendicitis ratio is 2,315). Cirrhosis of the liver is low for all three, but chronic nephritis (ratio 1,733) and cerebral hæmorrhage (1,247) are well above average for priests, though low for the other two. Pneumonia also is slightly above average for priests though very low for Anglican and other clergy. Cancer mortality is low for all, the ratio for ministers, 493, being the lowest recorded for any of the 178 occupations. Priests and ministers share the high diabetes mortality of their social class, but Anglicans escape it (ratio 779). No other occupation (except six with no deaths) records so low a ratio for syphilitic diseases as the highest (114, Anglican clergy) returned by the three clerical groups.

137. Barristers.—The C.M.F., 1,171, differs to an exceptional extent from the ratio of recorded to calculated deaths, 107. This is largely due to the fact that a death happened to occur amongst the 102 barristers aged 20–25, the exceptionally high death-rate at this age of 980 per 100,000 resulting, which Table B shows to be 278 per cent. of average. But the same table shows that all age rates were in excess up to 65, so there appears for some reason to have been real excess of mortality in this occupation. The Class I causal distribution of mortality is manifested in its extremest form by barristers, with the following record: phthisis, position 2, ratio 247; respiratory disease 24, 692; digestive disease 178, 4795. So only one occupation (building foremen) returns a lower death-rate from phthisis, and no other returns so high a rate from digestive diseases. This latter statement is seen from Table F to apply also to peptic ulcer (not a Class I feature) and appendicitis, while high rates are recorded also for chronic nephritis (156, 1629) and circulatory disease (173, 1815).

But the peptic ulcer and digestive diseases position is mainly due to one death from duodenal ulcer at 20–25, the small population at this age yielding a very high mortality. Omission of this death reduces the peptic ulcer C.M.F. from 172·6 to 24·6, and the digestive disease C.M.F. from 285·3 to 137·3. Even these reduced rates, however, are high, the resulting positions being 148 and 175. And the record of 178, 5933 for appendicitis is based not on one death but on five, so there can be no doubt as to the reality of excess from this type of mortality.

The diabetes experience of no mortality at 20–65 is not in reality so much opposed to the Class I tendency to excessive mortality from this cause as it may appear to be, for the excess applies almost entirely to later life (Diagram 3), and 5 deaths at ages over 65 are ignored in the calculation of the C.M.F. Much the same thing has happened with cancer of the stomach, for which the C.M.F. is also nil, notwithstanding high mortality (130, 1220) from cancer of all sites, and the exceptional mortality from diseases of the digestive system. But there were three deaths at ages over 65.

138. Solicitors.—Mortality is well below average in early and late life, the C.M.F. being 899, but slightly exceeds average at 45–55. The causal distribution conforms to the general Class I type, rates for phthisis (ratio 526) and respiratory disease (800) being low, and those for digestive diseases as a whole (1,412), appendicitis (1,876), cirrhosis of the liver (2,729), and suicide (1,654) high. But the diabetes ratio is only 943.

139. Medical Practitioners.—Mortality does not depart far from average at any time of life, the general result being a C.M.F. of 1,021. The causes of death conform on the whole to the Class I type, but depart from it in one or two directions which the occupational environment may explain. Along with the usual low phthisis mortality (11, 462) are found rather high rates for influenza (141, 1277) and respiratory disease (90, 1015). The latter is due to pneumonia (149, 1456), for bronchitis, (16, 300) is very low. So acute non-tuberculous respiratory diseases, influenza and pneumonia, seem a special risk for the doctor, easily to be explained by the conditions of his calling. The same explanation may apply to the accident ratio of 1,659, which is more than double that of Class I as a whole. The other features of medical mortality are for the most part those of Class I in general. These include high ratios for diabetes (1,557), digestive disease (1,592), appendicitis (1,573), cirrhosis of the liver (1,854), and suicide (2,012). Another characteristic feature of Class I mortality, specially well marked for doctors as for some of the other professions and higher-grade business occupations (particularly bank and insurance officials), is high proportion of "other" to valvular heart disease (Table C). For the population at large these are almost equal; for Class I "other" is almost double valvular disease; and for doctors, who presumably have access to the best means of diagnosis, nearly treble. This is due almost certainly to difference in nomenclature rather than in disease, valvular disease being diagnosed for Class V on evidence which would not pass muster in Class I practice (see page xxxiv). The evidence which was at one time held to justify a diagnosis of valvular disease is now no longer accepted as doing so, and the change of view has naturally affected Class I practice more than Class V.

140. Dentists.—Mortality is lower than for medical practitioners, the C.M.F. of 910 comparing with 1,021. The special doctors' risk from respiratory diseases (pneumonia) and accident does not apply to this indoor occupation, but, on the other hand, phthisis mortality (ratio 753) is considerably higher. The usual Class I excess for diabetes and for digestive diseases is greater for dentists than for doctors. Their ratio of 4,125 for cirrhosis of the liver is exceeded by only five occupations.

141. Teachers (not music teachers).—High mortality at 16–25, followed by consistently low rates at all subsequent ages (Table B), probably indicates that youths of poor physique are attracted to this as a light and healthy occupation. Its healthiness is attested both by mortality rates which after 25 never exceed 82 per cent. of average, and by a C.M.F. of 736, holding sixteenth place on the list. Mortality is low from almost all causes, the only ratios in excess of 1,000 being influenza 1,071, diabetes 1,164, and appendicitis, 1,079. That for respiratory disease (10, 468), is especially low.

142. Music Teachers.—Excess of mortality in early life is greater and more prolonged than for other teachers, lasting from 20 to 45, while all the later rates exceed those for other teachers, with the result that the music teachers' C.M.F. ratio of 1,096 (position 108) is in sharp contrast with that of 736 (position 16) for other teachers. The explanation of high early mortality suggested for teachers probably applies with greater force to music teachers. It is supported for both occupations by the fact that mortality from phthisis is in large excess at the same ages as total mortality, though at later ages, and considered as a whole, it is below average (C.M.F. ratio 931). Music teachers suffer much more than others from respiratory disease (143, 1477), chiefly pneumonia. This may be accounted for by greater exposure, as suggested in regard to the similar contrast between medical practitioners and dentists. High ratios are returned also for syphilitic diseases (1,646), diabetes (1,533), cerebral hæmorrhage (1,526), and cirrhosis of the liver (1,542).

143. Civil Engineers and Surveyors.—Low rates at all ages yield a C.M.F. of 752. Mortality in large measure conforms to the usual Class I type, with low rates for phthisis, cancer, and respiratory disease, and high for diabetes (ratio 1,467) and cirrhosis of the liver (1,313). But that for digestive disease is slightly below average.

144. Architects (C.M.F. 929) also conform in general to the mortality characteristics of their social class. Ratios are low for phthisis (713) and respiratory disease (794), and high for digestive disease (1,526), appendicitis (2,483), cirrhosis of the liver (1,396), and (slightly) for diabetes (1,156). The accident ratio is only 347, notwithstanding exposure to risk on buildings. The cancer rate departs from the usual Class I experience in being over average (ratio 1,095).

145. Authors, Editors, Journalists.—Mortality is quite low up to 35, 60–65 per cent. of average, but later on the ratio rises sharply, reaching a maximum of 120 per cent. at 45–55. The C.M.F., 1,003, or practically average, shows the mortality in a less favourable light than its position of 77, indicating that 101 occupations return a higher rate (see page liv). The most noticeable feature in regard to the causes of mortality is a high rate for cirrhosis of the liver (172, 3042).

146. Artists.—These are men described as painters, sculptors, engravers, etc., but their number (8,509) suggests that these terms are used in a very comprehensive sense. Their mortality record includes no important departures from the general average at any period of life, and the C.M.F. is 1,005. The only outstanding causal feature is a high rate for syphilis, etc. (169, 1982), but the C.M.F. ratios for phthisis (1,029), respiratory disease

(1,024), and bronchitis (1,123) are high enough to confirm the suspicion that the group is of very mixed social constitution. This has been allowed for in its assignment to Class II.

147. Proprietors and Managers of Theatres, Entertainments, Sports.—Here the nature of the case involves a very varying type of man, ranging from the travelling showman to the theatre magnate. This is allowed for by assignment to Social Classes II and III. Mortality, low in early life (under 25), inclines to exceed the average later, though never greatly. The C.M.F. is 1,020. While the rates from digestive diseases (161, 1424) and appendicitis (159, 1921) are high, those from phthisis (80, 972) and respiratory disease (73, 912) are not low, so causal distribution does not conform to any social type. Other causes in excess are syphilis etc. (168, 1941), diabetes (159, 1779), and cirrhosis of the liver (165, 2438).

148. Actors.—Mortality is high after 25, reaching 89 per cent. excess at 65–70. The C.M.F. is 1,336. Outstanding mortalities are those for syphilis etc. (177, 4649), digestive diseases (174, 2197) and cirrhosis of the liver (174, 4646). The phthisis figures (141, 1533) are also fairly high. Here again causal distribution is mixed, like the social type.

149. Musicians.—Mortality is above average at each age over 20, but the greatest excess is only 39 per cent. at 35–45. The C.M.F. is 1,220. The social assignment, Class III, is confirmed by the type of mortality, rates being high from most causes, especially syphilis etc. (172, 2059), phthisis (133, 1385), respiratory disease (123, 1241), bronchitis (118, 1200), and cancer (163, 1505).

150. Domestic Servants (indoor).—The C.M.F. ratio, 885, is closely adhered to at all periods of life, mortality being a little below average at each. The rates from most causes are low, especially respiratory disease (23, 687). The highest are for appendicitis (143, 1506), and suicide (136, 1296).

151. Gamekeepers.—These are now very old men, the proportions in 1921 of their numbers at various ages to the total at all ages increasing with increase of age from 36 per cent. of the average for all occupations at ages under 20 to 187 per cent. at ages over 65. This is presumably a consequence of the war, for the total number of gamekeepers was reduced by 45 per cent. between 1911 and 1921. Evidently, decrease of demand for gamekeepers prevented young men from entering the occupation, so that with lapse of time the older men, included in the census of 1911, became an increasingly important proportion of the whole. The C.M.F. is decidedly low, though two of the earlier age groups record some excess. The excess (over average) of 22 per cent. at 70– may be compared with that of 32 per cent. for farm bailiffs, whose earlier record is more favourable than that of the gamekeepers (see page liv). The C.M.F. of 667 sums up the low mortalities at 20–65 (varying from 49 to 101 per cent. of average) in Table B, but if all ages are taken into account, and the mortality of all males used as standard, the mortality ratio is increased from 66·7 to 107 per cent. of average (Appendix A, Table *c*). The reasons against the procedure resulting in the higher ratio are discussed on pages 118–123.

Tables D and F show the mortality of these men as low from almost every cause distinguished. From three indeed, circulatory disease, respiratory disease, and pneumonia, it is lower than for any other occupation, the respective C.M.F. ratios (Table D) being 369, 281, and 157. The phthisis record (45, 772) is not nearly so favourable as that for non-tuberculous respiratory disease, but the only causes in noteworthy excess are diabetes (130, 1254) and suicide (150, 1465).

152. Inn, Hotel—Keepers ; Publicans.—The mortality rates are consistently high after 25, but chiefly at 35–55, when the excess over average approaches 100 per cent. The C.M.F. is 1,585. Excess is recorded for almost every cause, the ratios for five causes being over 2,000—diabetes (172, 2852), digestive disease (177, 3452), chronic nephritis (171, 2264), suicide (174, 2609), and cirrhosis of the liver (178, 11552). This list indicates very clearly that the publican yields to the temptations towards over-eating and drinking entailed by his business. The cirrhosis ratio is, indeed, almost fantastically high, the only other excess in Table D to compare with it being that of tin and copper miners from tuberculosis. Other noteworthy figures are those for phthisis (132, 1344), respiratory disease (135, 1348), pneumonia (157, 1611), cerebral hæmorrhage (165, 1768), and circulatory disease (165, 1529).

153. Barmen.—These are young men, their proportion (to total at all ages) being high at each age from 16 to 35 and low at all others. The age distribution of their mortality—high generally, but chiefly at 35–55—is discussed on page 122. The C.M.F., 1,955, is exceeded by only four occupations, all of high silica risk. Indeed, as in these four tin and copper underground miners and cutlery grinders are each counted twice over, the barman's mortality is exceeded only by those of the two worst silica risk occupations, tin miners and metal grinders. Rates are very high from almost all causes, the only ratios below 1,000 in Table D being for diabetes and appendicitis, both diseases of a pronounced social distribution favouring the barman (*see* Diag. 3). Amongst the worst cause records are those for cirrhosis of the liver (176, 5833), digestive disease (175, 2308), circulatory disease (174, 1857), cancer (174, 1790)—*see* Table 5—syphilis etc. (173, 2137), chronic nephritis (173, 2571), cerebral hæmorrhage (167, 1875), phthisis (172, 2691), respiratory disease (159, 1904), and suicide (163, 1654). Even mortality from accident (133, 1132) is in considerable excess.

154. Waiters.—Mortality is in considerable excess at almost every age, the resultant C.M.F. being 1,323. Rates are high from most causes, the worst records being for cancer (178, 2003), syphilis etc. (176, 2598), cirrhosis of the liver (162, 2354), diabetes (160, 1803), phthisis (149, 1619), digestive disease (143, 1286), and respiratory disease (130, 1279). As the cancer C.M.F. is higher than for any other occupation (*see* page xxvii), its value as a measure of mortality has been assessed by the test employed in the Medical Research Council Special Report No. 99 (on occupational cancer in 1910–12). This was the ratio of actual deaths (A) to expected deaths (E), the test of significance applied being that $\frac{A \sim E}{\sqrt{E}}$ should equal at least 2. Estimating expected deaths at the rates for all occupied and retired males and taking all ages into consideration, the ratio obtained is 175 $\left(\frac{A \sim E}{\sqrt{E}} = 5{\cdot}4\right)$. This ratio is considerably below that of the C.M.F. 2,003, but if the C.M.F. ages, 20–65, are used, it becomes 200, with $\frac{A \sim E}{\sqrt{E}} = 5{\cdot}8$. Thus, both measures of the cancer mortality of waiters give the same result, just as they are in close agreement in the abstracts for the total mortality of nearly all occupations, and the significance of the result appears to be of a high order.

155. Laundry Workers.—Mortality is below average at most ages, and the C.M.F. 893. Rates are low for most causes, the worst records being for suicide (143, 1337), cirrhosis of the liver (133, 1323), and pneumonia (118, 1155).

156. Hairdressers.—Mortality is above average at all ages under 70, the C.M.F. being 1,234. Rates are in excess for most causes, the worst records being for chronic nephritis (165, 1930), cerebral hæmorrhage (164, 1664), syphilitic diseases (156, 1605), cirrhosis of the liver (150, 1854), digestive disease (147, 1311), diabetes (140, 1402), and phthisis (137, 1451).

157. Chimney Sweeps.—Moderate excess of mortality at most ages yields a C.M.F. of 1,123. The causes in chief excess are cancer (167, 1544), phthisis (147, 1607), circulatory disease (154, 1380), and cirrhosis of the liver (140, 1500). The heavy death-rate from skin cancer (especially of the scrotum), over 11½ times the average, is compared with other high occupational mortalities from this cause on page xxix.

158. Clerks (not Civil Service or Local Authority).—At no period of life does the mortality of this large body of men depart far from average, its general trend being expressed by a C.M.F. of 1,019. Rates run lower in early life for railway, and especially for bank and insurance clerks, than for others, presumably in part at least as a consequence of the medical examination to which they are subject on entry into these services, but in later life this advantage is lost, and in old age (over 65) the rates for railway clerks are definitely in excess. Their C.M.F. of 920, however, like that of the bank and insurance workers (937), is appreciably lower than the general average, so their experience must be considerably better than that of the general mass of commercial clerks not in the employment of large public companies, though inferior to that of the civil service and local authority staffs. Mortality is not excessive from any cause, the worst records being for syphilis etc. (139, 1266), phthisis (120, 1241), and cirrhosis of the liver (122, 1115). Mortality from digestive disease is in some excess for all (clerks 111, 1099; bank and insurance clerks 122, 1151; railway clerks 130, 1183), and phthisis has a relatively worse record for all than respiratory disease, which is rather low (clerks 59, 819; bank, etc., 61, 848; railway 58, 817). The suicide risk is considerable (134, 1272) for bank and insurance clerks. The accident rate is low for all.

159. Draughtsmen.—Mortality is rather low at most ages, especially in early life, and the C.M.F., 894, is below any of those quoted for clerks. Rates are fairly low for most causes, influenza (136, 1212) and cirrhosis of the liver (122, 1115) being in most excess.

160. Warehousemen.—Mortality is not far from average at any age, and the C.M.F. is 1,007. Two special groups have been dealt with separately, textile, and dry goods (cereals, provisions, etc.) warehousemen. The latter are of much the same moderate mortality as other warehousemen (C.M.F. 1,039), though suffering in some excess from phthisis, cerebral hæmorrhage, digestive disease in general, and especially cirrhosis of the liver (157, 2031). But the textile warehouseman is subject to high mortality at all ages, the C.M.F. being 1,421. The causes in excess include phthisis (162, 2048), cancer (161, 1498), diabetes (168, 2328), and digestive disease (171, 1845). Respiratory excess is only moderate (125, 1251). The cause rates for warehousemen in general are on the whole very close to average, the greatest departure being for accident (30, 400). This is a low risk also for textile and dry goods warehousemen.

161. Storekeepers.—The work of this considerable body of men (37,596) is closely allied to that of the warehousemen, the chief difference in type being that the latter handle finished products in warehouses and the former keep and issue stores of tools, raw materials, etc., in factories and other works of production. Mortality is a little lighter than for warehousemen, the rates being very little above average up to 45 and somewhat more definitely below it later. The C.M.F. is 952. The cause rates in the main conform, being generally about, or rather below, average. Low rates for diabetes (28, 574), cirrhosis of the liver (19, 208), and chronic nephritis (19, 661) are the chief features of the cause mortality record.

162. Packers.—Mortality keeps fairly close to average throughout life, the chief departure being 23 per cent. excess at 35–45. The C.M.F. is 1,097. The occupational environment must, of course, vary greatly with the articles packed, and naturally there are no distinctive causal mortalities. Rates tend to be rather high all round, and the distribution is more that of the social class (IV) than of the occupation. Thus we may note somewhat heavy rates for phthisis (131, 1330) and respiratory disease (124, 1246), and low for diabetes (13, 328).

163. Stationary Engine and Crane Drivers.—The C.M.F. is 937 and none of the age rates depart greatly from average. There is a definite accident risk (148, 1337) but the rates for most diseases are below average. There is no heavy causal excess, and the favourable experience includes that from phthisis (49, 794), respiratory disease (45, 776), and cirrhosis of the liver (49, 458).

164. General and Undefined Labourers.—Care having been taken in 1921 to avoid the error* in census tabulation which in 1911 led to an apparent excess mortality of 183 per cent. for these men (see Supplement to 75th Annual Report, Part IV, page xx), their C.M.F. now comes out at the more credible figure of 1,438—44 per cent. excess. This excess is spread over the whole of life, varying in extent from 28 per cent. at 65–70 to 70 at 16–20. High mortality is natural to this group, for ill-health, misfortune, and unreliability of character must all combine to recruit its ranks. The only cause rates not above average in Table D are for the two diseases of chief special incidence upon the more prosperous classes—diabetes (64, 787) and appendicitis (58, 798). The chief excesses are also characteristic of Class V mortality in general—phthisis (151, 1650), respiratory disease (155, 1742), bronchitis (147, 1946), and syphilis etc. (160, 1686). Here again the occupational risk is very varied, and the mortality features are those of the social class, with its excesses accentuated by the factors referred to above. And similarly, the Class V advantage for diabetes, appendicitis, cirrhosis of the liver, and suicide (the only causes for which the Class V ratio in Table D is below 1000) is either reduced (diabetes and appendicitis) or annulled (cirrhosis and suicide) for general labourers.

OCCUPATIONAL FERTILITY.

Legitimate Fertility.

In the Annual Report of the Registrar General for 1912, tables (XV–XVII) were published showing the numbers of legitimate births during 1911 to men in each occupation distinguished in the census of 1911, with the ratios of these to all males, and to married males under 55 years of age, in each case. Illegitimate births were similarly related to unmarried and widowed females by occupation. This tabulation is repeated in Tables A and I for the births of 1921. For both years, the legitimate births have been assembled occupationally into the same social classes as used for occupation mortality (*see* page viii). Even though three large groups of workers were excluded in 1911 from the five graded classes which are now included in them (coal miners, textile workers, and agricultural labourers), the general lines of distinction have remained so much the same that it is of interest to compare the fertility record of each class in the two census years. This is done in Table 23.

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* Classification as specialized labourers of men returned as general labourers, on the assumption that they were permanently associated with the industry in which they were at the moment employed in each case.

TABLE 23.—*Comparison of Legitimate Fertility and Infant Mortality in Social Classes,* 1911 *and* 1921.

Social Class.	Legitimate Births per 1,000 Married Males under 55 years of Age.					Infant Mortality.				
	Rate in		Rate per cent. of that for all Classes.		Rate in 1921 per cent. of that in 1911.	Rate in		Rate per cent. of that for all Classes.		Rate in 1921 per cent. of that in 1911.
	1911.	1921.	1911.	1921.		1911.	1921.	1911.	1921.	
I. Upper and middle ...	119	98	73	70	82	76	38	61	48	50
II. Intermediate	132	104	81	74	79	106	55	85	70	52
III. Skilled workers ...	153	141	94	100	92	113	77	90	97	68
IV. Intermediate... ...	158	162	98	115	103	122	89	98	113	73
V. Unskilled workers ...	213	178	131	126	84	153	97	122	123	63
All classes	162	141	100	100	89	125	79	100	100	63

At both periods, fertility stated in this way increased continuously from Class I to Class V, being nearly twice as high in the latter as in the former, and for every class except IV it is shown as having fallen in 1921. This apparent exception is doubtless due to inclusion with the five graded classes of the three groups of workers previously excluded. Large numbers of coal miners and agricultural labourers, whose fertility is above the average, have been added to Class IV from this source, and it may be presumed that this change in classification accounts for the increase of the rate shown for Class IV. Apart from this, the general picture is one of all-round decline, notwithstanding the fact that the post-war wave of fertility, which reached its highest point in 1920, had not spent itself in 1921. Decline since then has been uninterrupted. In view of the changes between the two periods in occupational and social classification, it would be unsafe to attribute significance to the minor variations recorded.

Side by side with this social grading of fertility, Table A shows a similar grading of infant mortality, from 38 deaths per 1,000 births for Class I, to 97 for Class V. In 1911 it ranged from 76 in Class I to 153 in Class V. The reduction is greatest towards the upper end of the scale, but is very large for all ranks. Owing, however, to the changes in the scheme of social grading, as well as in the occupational tabulation on which it is based, only the major features of Table 23 can be relied upon. It is inserted only with a view to showing the broad tendency of the rapid changes in progress, without putting the reader to the trouble of referring to the earlier report.

Table A contains a statement of the same particulars as Table 23 for every occupation distinguished in the census report. Unfortunately, however, the measures of fertility employed are all necessarily unsatisfactory. Statement of occupation on the census schedules does not always correspond with that on the registers of births or of deaths. Thus, for instance, 12,064 married men under 55 were returned at the census simply as members of the then existent "Defence Force." But this description was not as a rule accepted by registrars, and was entered on only 65 birth certificates. This yields a fertility rate of 5 per 1,000, clearly seen to be impossible when compared with the general average of 141. Many other occupations are probably affected in a similar way. Pea and fruit pickers form a glaring illustration, only one father having been so described in birth registration. But other occupations of more importance than these, and the similar case of "out of work" (Order XXXI, page cxiv) must be similarly affected, if in less degree. Thus foremen, generally speaking, are shown as of low fertility and mortality alike. This probably implies that a number of men so return themselves at the census, whose claim to the dignity implied breaks down on inquiry during registration. Machine shop foremen in metal working furnish an extreme example, with a fertility rate of only 27 per 1,000, or 19 per cent. of average. But the same tendency may be noted for other than manual workers. The fertility of company secretaries and registrars and of heads or managers of commercial office departments is suspiciously low, amounting for the latter to only 19 per cent. of average.

This want of correspondence between the census and registration returns of occupation has long been pointed out as a source of error in the tabulation of occupational mortality. But its effect has probably been increased by the recasting of the occupational classification. When this was largely industrial a motor car maker went to that heading, whatever his status, so classification was not affected by this consideration. Now, however, as in the cases quoted, status largely affects occupational distinctions, as of course in any attempt to distinguish the nature of the work actually performed it must, and the scope for this type of error is increased.

Errors of the kind just discussed apply, of course, to all methods of stating occupational fertility, but other considerations apply when a choice has to be made between the different measures employed in Table A. So far only the " crude rate per 1,000 married males under 55 " has been referred to. If this is regarded as a fertility rate (*i.e.*, an index to the tendency to reproduction) it, of course, suffers from the defect of treating men of all ages alike, whereas the strong probability is that the wife of a man aged 25 is, by reason of her age alone, of much higher fertility than the wife of a man aged 50. But after all, the point of chief interest is not so much the variation in potential as in *realized* fertility, of the various occupations and classes. If we wish to compare their relative rates of increase (or decrease) by difference between births and deaths, age, within limits, and marital condition are immaterial, and all we require is the ratio of births to men of reproductive age, married or single. For from this point of view the effect is the same whether paternity is avoided by avoidance of marriage or by measures taken for the purpose after marriage. For this reason Tables XV–XVII of the Annual Report for 1912 show the ratios of births both to all males and to married males under 55 years of age. It would probably have been better to apply an age limit in both cases, as few children are born to men after middle life,* and certain classes and occupations are, by reason of their lower mortality, much more represented in later life than the average. But this point of view (total class or occupational fertility, irrespective of marriage) has not been catered for in Table A, which takes account only of married men and, therefore, aims at measuring fertility in proportion to opportunity. When this is the object in view, account should be taken of age, and column 11 of Table A represents an attempt to do so. But, unfortunately, it is the age of the wife which alone (to all intents and purposes, *see* 1911 Census Report on Fertility of Marriage, Part II, page xxviii) influences fertility, and it is the age of the husband alone which it has been possible to take into account. The husband's age is of significance as an index to the wife's, with which it is closely correlated (*see* same Report, page xii, Table III), but, unfortunately, the degree of this correlation varies greatly in different ranks of life (same Report, Table VII). From this table it may be estimated that the average difference in age between husband and wife in 1911 was 2·3 in Class V, and in Class I*a* of the table (which substantially corresponds with Class I of the present scale) 5·3 years. These figures are only approximations, which cannot be expected to represent the facts with accuracy, as the information in the table does not suffice for this purpose. But the estimate has been made by the use of identical assumptions in each case, so the results are at least free from bias in intention, though perhaps not in effect, as between class and class.

For most of the couples dealt with in the table a definite relationship of age could be assumed on the basis of the information in the table itself. Thus, it was assumed that husbands aged 25–29 at marriage were exactly five years older than their wives of marriage age 20–24. This is almost certainly not the precise truth, but the assumption was accepted as impartial between class and class. But for other combinations of marriage age no definite difference in age could be assumed from the information given in the table. Where all we have given as to the husband's age is that he was married at 45 or over we can make no assumption as to the average excess of his age over that of his wife married at 30–34. This difficulty was met by ascertaining for such combinations the average difference for the marriages of less than one year's duration at census date of all classes, from the material in Table I of the Fertility Report. These differences were then assumed to apply in every case. Obviously such a method cannot be expected to measure average difference in age accurately for the classes compared. It probably tends to under-estimation of class contrast, for it seems likely that the class of greater average difference in age between husband

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* 1911 Census Report, Vol. xiii, part 1, Table I.

and wife generally will also show greater than average interval of age between husbands married at say 45—and wives married at 30–34. If so, we are plainly under-estimating the average age difference for all marriages in Class I, and over-estimating it in Class V, by assuming that the difference in question (between marriage ages 45– and 30–34) is equal for the two classes. The contrast between the average Class I and Class V differences (5·3 and 2·3 years respectively) is therefore probably understated.

There is reason to believe that the method described under-estimates the actual differences, as well as the social contrast. For it yields a difference of 2·32 years for all classes jointly, and this figure can be checked. The actual differences are recorded in detail, but without distinction of social class, in Table III of the Fertility Report (1911). From this material it can be shown that the average excess of husband's age in 1911 was 3·42 years—a much higher figure than the estimate of 2·32 derived from Tables VII and I. It seems almost certain, therefore, that the real Class Iᴀ difference was appreciably greater than 5·3 years, though whether that for Class V was greater or less than 2·3 it is hard to say. In any case it must have been much less than for Class Iᴀ. The chief class peculiarity seems to be excess of difference for Iᴀ. Other differences roughly estimated in the manner described vary but little, and it will be noted the result for Class V (2·3) is the same as for the total population. This special Iᴀ excess presumably accounts for the overstatement of Class I fertility in column 11 of Table A (see below). A consequence of this class variation is that, as will shortly be explained, the correction applied in column 11 of Table A varies in its effect when applied to Class I and other classes and to occupations of varying social class.

The alternative measure employed in the table states legitimate births per 1,000 married males under 55 years of age. As a measure of actual reproduction this fails, as already pointed out, because of its restriction to married males, whereas the single and widowed, who might be married but are not, should also be taken into account. As a measure of fertility it is at fault because it largely leaves out of account the very important factor of wives' ages. But this could be properly allowed for only by a census tabulation, which has not been made, of the ages of the wives of men following different occupations. In so far as the point of interest in regard to occupational reproduction is its actual amount per head rather than its amount in proportion to opportunity (fertility), age is immaterial (except for the necessary exclusion of old men unlikely to have children), and by ignoring it the error is avoided which the use of the census fertility rates for husbands of varying age introduces. This arises from the fact that in Class I husbands tend to be considerably older than their wives and that this difference is less for the other classes. But the census fertility rates for males of different ages used for obtaining the entries in the column headed "calculated legitimate births" represent the average for all social classes. It follows that in dealing with Class I we are applying to men of any given age the fertility rate for men with considerably older wives, and so under-estimating their expected fertility. The standard with which their realized fertility is compared in column 11 is thus unduly low, and the resultant ratio of registered to calculated births, by which their fertility is measured, correspondingly overstated. The effect of this may be seen by comparing the social class entries in columns 11 and 13 of Table A. These ratios are as follows :—

	Col. 11.	Col. 13.
Class I	85	70
,, II.	85	74
,, III	97	101
,, IV	109	116
,, V	128	127

In Class I the ratio which allows for age is much higher than that which does not, but there is little difference for Classes III–V. In these classes the difference in age between husband and wife approximates to the average for all classes, so the husband's age is a good index to that of the wife, and the allowance for age is correctly made accordingly.

Both on account of this biassed error in the col. 11 ratios, differentiating in favour of Classes I and II, and because of the preponderant importance of the point of view from which age is immaterial, the rates and ratios in cols. 12 and 13, corresponding with the similar rates shown in 1912 for 1911, may be regarded as the most satisfactory measure of occupational reproduction in Table A, but for the purpose of measuring fertility (the tendency to reproduction, as measured by achievement in proportion to opportunity) they require to be supplemented by the ratios in col. 11, which show up the cases where in this connexion age most requires to be taken into account. Thus, farmers' sons, who are naturally very young (married) men, show a ratio in col. 13 of 40 per cent., but in col. 11 of only 26 per cent. of average. Being young, they have also young wives, and the fertility to be expected of them is the higher on this account. Their registered births were 26 per cent. of this appropriately high standard, but their fertility per 1,000 of all ages was 40 per cent. of average. By either form of statement their fertility is very low, but this is another matter. Most of these young couples presumably share the parents' home, a condition probably not conducive to fertility. On the other hand, the rate for farmers themselves, men of over average age (General Report, 1921 Census, Table L), and of whom less fertility is to be expected in view of their wives' ages, is much higher (123 per cent. of average), as stated in col. 11, where allowance is made for age, than in col. 13 (96 per cent.), where it is not. And this applies generally to occupations of over average age, including most in Class I. So part of the excess of the col. 11 ratios for this class over those in col. 13 is appropriate to the facts, though it is very largely due to special excess, for this class, of husbands' age over that of their wives, and so inappropriate to an allowance for age which should apply to that of the wife alone.

It is impossible to deal in detail with the occupational fertilities recorded in Table A, but a few may be referred to as illustrating the points dealt with, or otherwise of special interest.

The over-statement of fertility of Class I occupations in col. 11 is specially noticeable for barristers (131 per cent.) and medical men (110), corresponding ratios of total standardized fertility derived from Table XLVIII of the 1911 Census Fertility Report being 63 and 66.

When the source of this inflation is avoided by the method of statement employed in col. 13 these ratios are reduced to more credible figures, 131 to 95 and 110 to 79. On the other hand, the case of officers in the Royal Air Force illustrates the use of col. 11 as a corrective of col. 13 in certain cases. These were very young men in 1921—many of them, no doubt, quite recently married to young wives. Consequently, col. 13, taking no cognizance of this, credits them with fertility 50 per cent. above average, whereas col. 11, by allowing for their age, reduces the excess to 6 per cent. Army officers are shown as of high fertility by both methods of statement. Probably this was so in 1921, soon after demobilization, but it was far from being so in 1911, and is probably not so now (1927).

The fertility of all coal-mining occupations, except those of managerial rank, is rated higher in col. 13 than in col. 11. These men marry young, so the conditions of the R.A.F. officers apply to them also. The discrepancy is greatest for the conveyors of material to the shaft, who, as pointed out on page lvii, are very young workers indeed.

Quite incredibly high ratios are returned by both methods for consultant engineers—176 (col. 11) and 159 (col. 13) for those engaged in mechanical and electrical engineering, and 260 and 213 for those in mining engineering. The explanation in the latter case is known. It illustrates the danger of applying registration to census occupational data. Mining engineers of coal mines are allocated to the line "owners, agents, managers" of coal mines, and in the census tabulation this assignment can always be made, employment in a coal mine being stated under "industry." But the registrar may not always obtain this information in birth registration, and in its absence this mine employee is liable to be regarded as a consultant engineer, and the birth wrongly assigned to that occupation. The origin of the very high ratios (176, 159) for consultant mechanical engineers may be due to the description on the census schedule not stating or implying that the man was a consultant, whereas the registrar was able to ascertain that fact when the birth was registered.

The statements of fertility in Table A must therefore be admitted on various grounds to be unreliable, though the broader outlines of the picture presented may be accepted with confidence. Approximate accuracy in detail can be expected only by repetition of the specific census inquiry of 1911, by securing a record of the ages of parents in birth registration, or by census tabulation of the ages of wives of men of various occupations (*see* page vii).

Illegitimate Fertility.

The fertility of unmarried women, and the mortality of their infants, are dealt with in Table I. This shows the classes of women chiefly concerned. It does this by means both of a crude fertility rate per 1,000 women of all fertile ages (neglecting those under 16 and over 45), and of a ratio of registered to calculated births, similar to that employed in Table A. It is thus left to the reader to decide whether for his purpose age should or should not be taken into account. Although the natural fertility of women varies much with age, the fertility of the unmarried is governed so much more by social custom than by nature that the reasons for taking age into account are quite different from those applying to legitimate fertility. Although there are no registration data on the subject, it is believed that the proportion of illegitimate children born to women over 30 years of age is far smaller than could be accounted for by natural decrease of fertility with advancing age. (The source of the rates employed to obtain the entries in col. 5 of Table I is indicated in a footnote to that table.)

Consequently, it is the differential risk at varying ages of non-compliance with social custom which is taken into account in cols. 5 and 6 of Table I, far more than the laws of nature, and it is for the reader to decide whether, from his particular point of view, the allowance for age in col. 6 is appropriate. Fortunately, the general indications of col. 6, where age is taken fully into account, are very similar to those of col. 7, where all fertile ages are dealt with alike. Thus the large groups of occupations dealt with range themselves in very much the same order, whether age is allowed for or not. In either case, the first six, in order of fertility, are mining and quarrying, agriculture, personal service, entertainments, manufacture, and transport, the first four of these alone being in excess of the general average by either measure. By either measure, also, the lowest rates are those for professional workers and clerks. As the numbers of women engaged in mining and agricultural occupations are small, the high rate for the numerous workers in personal service is the most significant feature of the table. The five occupations distinguished under this head all yield high rates in cols. 6 and 7, that for charwomen, 842 per cent. of average, being the highest for any occupation in col. 6, though the corresponding entry in col. 7, 32·0, is far exceeded by that for costermongers, 55·8. This of course implies that illegitimacy is much commoner amongst costermongers than charwomen, but that when allowance is made for the greater age of the latter, the scale is turned against them. The reader must choose for himself which measure to accept. Next to these two occupations come agricultural labourers, mine and quarry workers, rag bone and bottle sorters, and miscellaneous unskilled workers, all with rates in considerable excess of those for domestic servants.

By either method of statement the fertility of the unoccupied is somewhat higher than that of the occupied, the excess being rather greater when the greater age of the former (General Report on 1921 Census, Table LI) is taken into account.

OCCUPATIONAL INFANT MORTALITY.

Mortality of the Legitimate.

Table H provides an analysis by age and cause of the infant mortality recorded in Table A. It gives this information for the five social classes, and for a large number of occupational groups. These groups correspond largely, but not completely, with those employed in occupational mortality tabulation (pages 5–95). For this latter purpose the consideration regarded as deciding the grouping was the occupational risk involved for the men employed, and so men doing similar work are grouped together, even if their degree of skill and rates of pay are different. But it is these latter considerations which chiefly govern the social grading employed, and infant mortality is, of course, closely bound up with social considerations. Under urban conditions of life the better housing and care, which the higher wages of the skilled worker can purchase for his child, must give it a much better chance in infancy than the child of his unskilled and lower paid assistant. And in addition to the mere automatic effect of higher pay the superior intelligence—(if it can be assumed to exist)—of the class to which the skilled man belongs must operate through the wife and mother to the advantage of the child. For this reason the occupational grouping in Table H has been carried out on special lines, each group being restricted to one social class. Thus for the purposes of adult mortality tabulation boilermakers and their labourers form one group (No. 34), and rivetters and their labourers another (No. 43), but in Table H boilermakers and rivetters, both Class III, have been assigned to one group, and their labourers, Class IV, to another. Infant mortality in the second of these is considerably higher than in the first.

Turning now to the social class differences in mortality, we see that in each of the four sections of the first year of life distinguished, mortality increases without a break from Class I to Class V. The extent of this increase, comparatively slight during the first month, becomes much greater at higher ages, especially after the first month is over. Mortality in Class V compares as follows with that of Class I, taken as 100, for the four successive ages distinguished—158, 363, 412, 424. It follows from this increase in the excess of mortality for the lower social levels as age advances that the age distribution of infant deaths is very unlike at different social levels, the deaths caused by adverse environmental conditions during later infancy increasing in proportion from top to bottom of the social scale. Taking deaths at all periods of infancy as 100 in each case, these are distributed as follows over the four sections of infant life in the five classes :—

	I	II	III	IV	V	All Classes.
0–4 weeks ..	61	51	44	41	39	43
4 weeks to 3 months	13	17	18	18	18	18
3–6 months ..	11	15	16	17	18	17
6–12 months ..	15	17	22	24	25	22
0–12 months ..	100	100	100	100	100	100

The deaths of the first four weeks are, of course, the least preventable, and it is at this period that infant mortality is falling least. Their importance as an element in the whole accordingly declines from a maximum in Class I to a minimum in Class V, while that of deaths at higher ages, especially 3–6 and 6–12 months, correspondingly increases. These figures show very clearly in what class of society and at what period of infancy further decrease of infant mortality must be sought. By far the most avoidable deaths are those occurring in later infancy amongst the poorer classes. But the difference between Classes I and V for the first four weeks show that there is considerable scope for improvement here also. This is confirmed, when causes of death are distinguished, by the differential mortality recorded for the developmental and wasting diseases to which the deaths of the first four weeks are almost entirely due. The two chief causes of mortality in this group record large and continuously progressive increases from Class I to Class V, premature birth from 11·9 to 21·1 and congenital debility from 2·3 to 8·5. It is the miscellaneous deaths grouped under the latter heading which are most preventable in early infancy. This is shown both by the fact that decline is occurring chiefly under this heading, and that class variation is at a maximum for it.

But the only other cause distinguished which contributes to the "developmental and wasting" total, though in less degree—congenital malformations—does not follow the same law of social distribution. Mortality from this cause is, as might be expected, very much the same in all classes, though, as will be seen when Table I is considered, there is some indication that if the mother is engaged in manual labour during pregnancy the risk of malformation fatal to the life of the infant is increased. But for legitimate infants, in whose case in general the importance of this factor must be small, mortality from this cause is practically the same in all classes, varying only from 3·8 in Class II to 4·0 in Classes III–V.

There are indeed a few exceptional rates to be noted for certain occupations which suggest that manual labour during pregnancy may sometimes influence even the mortality of legitimate infants recorded in Table H. The rate for textile workers as a whole, 5·5, is very high as compared with the average of 4·0 so closely adhered to by all social classes, and the high proportion of married women engaged in textile work is well known (*see* Census, 1921, General Report, page 133). This suggests a connexion for legitimate births between textile industry and malformation which is very evident for illegitimate in Table I, and which is shown also by the similar returns for 1911, when the textile figure of 4·6 stood out in the same way in contrast with rates ranging from 3·4 to 3·8 for the other seven classes then distinguished (Annual Report for 1911, Table 28B). And the highest rates in Table H, weavers 5·8, costermongers 6·1, textile foremen 6·2, clergy 6·3, boiler firemen and glasshouse workers 6·5, and textile breakers, hecklers, etc. 11·7, seven in all, include three textile occupations, one of quite outstanding mortality. Three of the others as well may all involve much work for the mother. This is obviously so for the costermonger, and the clergyman's wife (seven deaths from malformation out of 1,104 births) has many calls upon her energies. If the incidence of mortality corresponds with that of malformation the latter is practically the same in all classes, but if greater care in Class I prevents death, at least during infancy, from some malformations which would be fatal in Class V, it is possible that these congenital defects may be somewhat more frequent in the upper than in the lower ranks.

Whether this be so or not similar reversal of the general social grading applies to deaths attributed to injury at birth, which decrease from 1·8 per 1,000 births in Class I to 1·1 in Class V. The explanation which at once suggests itself, and will probably be accepted by most readers, is that births in Class V, being attended mainly by midwives, are allowed to take their natural course more frequently than those attended by medical men. But another explanation is theoretically possible. As the effects of cerebral injury during birth are often difficult to recognise as such it may be argued that the more skilled midwifery available for Class I recognizes the causation of a larger proportion of them than is recognized in Class V midwifery practice.

Mortality from tuberculosis increases from 0·6 in Class I to 1·9 in Class IV, falling to 1·7 in Class V. Although it was not till 1909 that this mortality came down to 4·0, the century having started with 6·4 in 1901, there are only five occupational records for 1921 exceeding 4·0, of which the highest (for woollen scourers, &c.) is 4·7.

Diarrhœal mortality has a wide social range, from 4·2 for Class I to 18·5 for Class V, exceeded only by that applying to respiratory disease. The highest rates returned are those for costermongers, 29·3, and brick and pottery kiln and oven men, 36·4.

Judged by the evidence of Table H, the most preventable deaths of infants are those from respiratory disease. The mortality ascribed to bronchitis increases from 0·7 for Class I to 6·5 for Classes IV and V, and that to pneumonia from 2·6 (Class I) to 12·4 (Class V). This does not, of course, imply that under the present conditions of life applying to the various classes, increase of knowledge and care on the part of Class V mothers could reduce their infants' death-rate to the Class I level. This may be impossible without Class I housing and other hygienic conditions dependent on finance, but the comparison leaves little doubt that greater care could prevent many of the working class infant deaths ascribed to these causes. Some of the highest bronchitis rates are 12·0 for shipyard labourers, 12·7 for ironfoundry furnacemen and labourers, 12·8 for boilermakers, platers' and rivetters' labourers, and 15·9 for unskilled textile workers. These are all Class IV occupations, of such a nature as to involve home life in a smoke-polluted atmosphere. The highest pneumonia rates are those for porters (16·0), miscellaneous railway workers (16·3), dock labourers (16·6), woollen scourers, calenderers and finishers (17·2), marine firemen (17·2), textile breakers, hecklers, &c. (18·4), and costermongers (19·5). In this case, the association with smoke seems less obvious, all but the two textile occupations being widely represented in all parts of the country. Two of the six are associated with seaports, and the worst of all probably involves in many cases a special degree of exposure for the infant.

It might perhaps be expected that mortality ascribed to premature birth would show more evidence of association with work during pregnancy than that from malformations, but this does not prove to be the case. The highest rates are those for spinners and piecers (25·7), miscellaneous railway workers (26·1), carpet beaters, window cleaners, &c. (26·2), unskilled brick tile and pottery workers (27·6), dentists (27·6), and shipyard labourers (29·4). Compared with the general average of 18·8, these excesses are remarkably small, and only two out of the five suggest special likelihood of employment for the wife.

The small amount of mortality now ascribed to suffocation in bed varies much with social class, from 0·2 (3 deaths) in Class I to 0·9 (106 deaths) in Class V. The highest rates recorded are 2·8 for shipyard labourers, 2·3 for textile finishers, and 2·2 for costermongers.

Mortality of the Illegitimate.

The mortality of illegitimate infants was in 1921 just double that of the legitimate. The excess was, as usual, greatest for syphilis (9·0 as against 1·1), the highest rates from this cause being those for rag, bone, &c., sorters (27·4, 2 deaths) and for two textile occupations (19·4 and 18·5), but the data are too scanty to furnish reliable rates. Deaths ascribed to congenital debility are also in special excess for the illegitimate, but this does not apply to premature birth. The smallest excess is that for congenital malformations (4·0 legitimate, 4·4 illegitimate). Reference has already been made to the fact that these conditions appear to have a relation to the occupation of the mother, mortality from them tending to be high in textile and other occupations involving manual labour. It is higher for the occupied (4·7) than for the unoccupied (3·5). It is much higher (8·3) for textile workers than for domestic servants (3·7), to make a comparison where the deaths (25 and 50 respectively) provide an adequate basis of fact. But for charwomen (6 deaths) whose work is probably harder than that of indoor domestic servants, the rate is 6·8. Of occupational death-rates from this cause, based on more than two deaths, the highest are those of miscellaneous unskilled workers (14·9), spinners and piecers (14·0), sick nurses, etc. (12·8), winders, warpers, etc. (8·6), warehouse women and packers (7·8), and textile hecklers, etc. (7·4). This list displays the special incidence on the textile worker already noted for married women, but it is unfortunate that information as to the occupation of the mother is available only for the unmarried, whose children are too few to provide satisfactory basis of facts for examining the occupational incidence of so rare a cause of infantile death. But the data, such as they are, for illegitimate and legitimate infants alike (and for 1911, as well as for 1921) indicate special frequency of fatal malformations in the infants of textile workers, and probably of others doing similar manual work.

TABLE A.—OCCUPATIONAL MORTALITY, LEGITIMATE FERTILITY AND INFANT MORTALITY.

MORTALITY (1921–1923) OF MALES, AGED 20–65, IN EACH OCCUPATION DISTINGUISHED IN THE CENSUS REPORT. ALSO THEIR LEGITIMATE FERTILITY AND THE MORTALITY OF THEIR INFANTS DURING 1921.

MORTALITY OF MALES, AGED 20–65 YEARS, IN EACH OCCUPATION (1921–1923).								LEGITIMATE FERTILITY, 1921.						INFANT MORTALITY (1921).	
Number of Males aged 20–65 Years. (Census 1921).	Registered Deaths of Males aged 20–65 Years.	Calculated* Deaths of Males aged 20–65 Years.	Ratio of Registered to 100 Calculated Deaths.	For further information, *see* page i.	Occupation Code Number.	Social Class.	OCCUPATION.	Number of Married Males under 55 Years of Age. (Census 1921).	Registered Legitimate Births.	Calculated Legitimate Births.†	Ratio of Registered to 100 Calculated Births.	Crude Birth-rate per 1,000 Married Males under 55 Years of Age.	Crude Birth-rate compared with that of all Males taken as 100.	Deaths of Legitimate Infants under 1 Year of Age.	Infant Mortality per 1,000 Births.
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*		*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*
10,082,062	**278,911**	**275,207**	**101**	**2**	—	—	**All Males**	**5,802,922**	**810,196**	**810,196**	**100**	**140**	**100**	**64,135**	**79**
9,704,860	**266,384**	**266,384**	**100**	**2**	—	—	**All Occupied and Retired Males§**	**5,710,219‡**	**805,345**	**799,676**	**101**	**141**	**101**	**63,636**	**79**
225,618	**5,813**	**7,048**	**82**	**3**	—	1	**Social Class I (Upper and Middle)§**	**127,157**	**12,404**	**14,606**	**85**	**98**	**70**	**476**	**38**
1,974,884	**54,913**	**58,205**	**94**	**3**	—	2	**Social Class II (Intermediate)§**	**1,155,491**	**120,306**	**141,806**	**85**	**104**	**74**	**6,665**	**55**
4,218,715	**103,990**	**109,528**	**95**	**4**	—	3	**Social Class III (Skilled Workers)§**	**2,597,138**	**365,337**	**378,042**	**97**	**141**	**101**	**28,077**	**77**
1,984,906	**53,839**	**53,475**	**101**	**4**	—	4	**Social Class IV (Intermediate)§**	**1,139,655**	**184,358**	**168,902**	**109**	**162**	**116**	**16,483**	**89**
1,300,737	**47,829**	**38,128**	**125**	**5**	—	5	**Social Class V (Unskilled Workers)§**	**690,778**	**122,940**	**96,320**	**128**	**178**	**127**	**11,935**	**97**
24,485	**630**	**690**	**91**	—	000	**4**	**I. Fishermen**	**14,487**	**2,793**	**2,145**	**130**	**193**	**138**	**276**	**99**
876,400	**18,544**	**27,416**	**68**	—	—	—	**II. Agricultural Occupations**	**429,577**	**57,230**	**53,699**	**107**	**133**	**95**	**3,438**	**60**
1,644	20	63	32	—	010	2	Land and Estate Agents and Managers (not Auctioneers and Estate Agents)	886	77	82	94	87	62	6	78
218,494	5,605	7,871	71	} 5	011	2	Farmers	125,215	16,878	13,696	123	135	96	851	50
48,254	156	704	22		012	2	Farmers' Sons or other Relatives assisting in the Work of the Farm	6,903	389	1,471	26	56	40	32	82
147,537	3,667	5,186	71	6	013	3	Gardeners, Nurserymen, Seedsmen, Florists	78,130	7,811	8,751	89	100	71	417	53
3,476	27	50	54	—	014	2	Agricultural and Forestry Pupils (not at Colleges)	1,003	93	175	53	93	66	3	32
21,020	374	691	54	6	015	3	Farm Bailiffs and Foremen	13,800	1,377	1,502	92	100	71	67	49
8,630	204	292	70	7	016	3	Foresters and Woodmen	4,560	582	518	112	128	91	42	72
1,418	22	44	50	—	017	2	Agricultural Machine, Tractor—Proprietors, Managers, Foremen	876	78	108	72	89	64	8	103
97	1	3	33	—	018	3	Drainage Superintendents, Foremen, etc.	55	6	5	120	109	78	—	—
9,384	195	327	60	7	020	4	Shepherds	5,253	608	571	106	116	83	28	46
8,338	96	189	51	—	021	4	Agricultural Machine, Tractor—Drivers, Attendants	4,764	737	749	98	155	111	51	69
383,165	7,748	11,209	69	7	022–4	4	Agricultural Labourers, Farm Servants	176,572	27,315	24,565	111	155	111	1,858	68
15,536	238	474	50	6	025	5	Gardeners' Labourers	6,929	724	937	77	104	74	40	55
685	12	26	46	—	026	4	Land Drainers, Drainage Labourers	333	25	35	71	75	54	2	80
666	10	22	45	7	027	4	Labourers in Woods and Forests	273	33	29	114	121	86	3	91
2,687	94	108	87	—	028	5	Estate Labourers	1,286	170	139	122	132	94	7	41
784	2	23	9	—	038	5	Pea and Fruit Pickers	352	1	56	2	3	2	—	—
4,585	73	134	54	—	039	4	Other Agricultural Occupations	2,387	326	310	105	137	98	23	71
847,797	**21,171**	**20,822**	**102**	—	—	—	**III. Mining and Quarrying Occupations**	**528,596**	**104,740**	**84,244**	**124**	**198**	**141**	**10,743**	**103**
786,242	19,322	19,059	101	—	—	—	1. IN COAL AND SHALE MINES	493,550	99,196	79,488	25	201	144	10,246	103
5,712	135	186	73	—	040	2	Owners, Agents, Managers	3,669	283	395	72	77	55	12	42
39,330	963	1,183	81	8	041	3	Subordinate Superintending Staff (including Inspectors, Contractors and Foremen)	29,957	3,577	3,564	100	119	85	260	73
468,394	9,788	10,669	92	8	042	3	Hewers and Getters	314,784	63,007	52,168	121	200	143	6,489	103
72,026	1,452	1,186	122	9	043	4	Persons Conveying Material to the Shaft	33,354	9,938	7,059	141	298	213	1,028	103
50,354	1,826	1,546	118	9	044	4	Persons Making and Repairing Roads	29,267	6,198	4,190	148	212	151	671	108
74,340	2,596	2,116	123	10	047	4	Other Workers Below Ground	43,053	9,136	6,366	144	212	151	1,073	117
76,086	2,562	2,173	118	11	049	4	Other Workers Above Ground	39,466	7,057	5,746	123	179	128	713	101
19,287	723	522	139	—	—	—	2. IN METALLIFEROUS MINES AND WORKINGS	11,476	2,185	1,660	132	190	136	215	98
337	9	12	75	—	050	2	Owners, Agents, Managers	208	16	23	70	77	55	—	—
880	27	33	82	—	051	3	Subordinate Superintending Staff (including Inspectors, Contractors and Foremen)	579	39	56	70	67	48	4	103
14,282	601	367	164	12, 13	054	3	Other Workers Below Ground	8,733	1,806	1,312	138	207	148	179	99
3,788	86	110	78	12	056	4	Other Workers Above Ground and in Open Workings	1,956	324	269	120	166	119	32	99
42,116	1,115	1,238	90	—	—	—	3. IN OTHER MINES AND QUARRIES	23,482	3,349	3,083	109	143	102	282	84
1,387	45	51	88	—	070	2	Owners, Agents, Managers	856	65	88	74	76	54	1	15
1,224	36	46	78	—	071	3	Subordinate Superintending Staff (including Inspectors, Contractors and Foremen)	796	65	69	94	82	59	3	46
22,871	628	665	94	13	072	4	Stone Miners, Quarriers	12,456	1,860	1,660	112	149	106	160	86
5,491	167	174	96	14	073	4	Slate Miners, Quarriers	2,830	299	314	95	106	76	34	114
8,740	168	235	71	—	074	5	Clay, Sand, Gravel—Pit Workers	5,235	845	766	110	161	115	75	89
2,403	71	67	106	—	076	3	Other Workers	1,309	215	186	116	164	117	9	42

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* The calculated deaths are those which would have occurred if the mortality rate at each age group in the several occupations had been the same as that for all occupied and retired civilian males.

† The calculated births are those which would have occurred if the fertility rates at the various age groups in the several occupations had borne the same relations to each other as those stated for all married males in Table 12 of the Dependency, Orphanhood, and Fertility volume of the 1921 census. The rates used for calculation are based on those returned in that table, but are so increased as to yield the number of births registered in 1921.

§ The figures showing the Mortality of all Occupied and Retired Males and of the five Social Classes, refer to Civilians only. ‡ Occupied only.

TABLE A.—MORTALITY OF MALES, AGED 20–65 (1921–1923); FERTILITY AND INFANT MORTALITY (1921), IN EACH OCCUPATION—*continued.*

MORTALITY OF MALES, AGED 20–65 YEARS, IN EACH OCCUPATION (1921–1923).								LEGITIMATE FERTILITY, 1921.						INFANT MORTALITY (1921).	
Number of Males aged 20–65 Years. (Census 1921).	Registered Deaths of Males aged 20–65 Years.	Calculated* Deaths of Males aged 20–65 Years.	Ratio of Registered to 100 Calculated Deaths.	For further information, *see* page i.	Occupation Code Number.	Social Class.	OCCUPATION.	Number of Married Males under 55 Years of Age. (Census 1921).	Registered Legitimate Births.	Calculated Legitimate Births.†	Ratio of Registered to 100 Calculated Births.	Crude Birth-rate per 1,000 Married Males under 55 Years of Age.	Crude Birth-rate compared with that of all Males taken as 100.	Deaths of Legitimate Infants under 1 Year of Age.	Infant Mortality per 1,000 Births.
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*		*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*
							III. Mining and Quarrying Occupations—*continued.*								
152	11	3	367	—	—	—	4. AT OIL WELLS AND BRINE WELLS	88	10	13	77	114	81	—	—
28	4	1	400	—	077	2	Managers	15	3	2	150	200	143	—	—
24	1	0	—	—	078	3	Foremen	18	1	2	50	56	40	—	—
100	6	2	300	—	079	5	Pumpers and Labourers	55	6	9	67	109	78	—	—
22,422	**450**	**593**	**76**	—	—	—	**IV. Workers in the treatment of Non-Metalliferous Mine and Quarry Products (excluding Workers in Gas Works)**	**14,453**	**2,583**	**2,061**	**101**	**144**	**103**	**191**	**92**
8,294	155	216	72	—	—	—	1. MAKERS OF COKE AND BY-PRODUCTS (EXCLUDING TAR DISTILLING)	5,695	766	789	97	135	96	95	124
189	3	6	50	—	080	2	Employers and Managers	144	16	14	114	111	79	1	63
454	8	13	62	—	081	3	Foremen and Overlookers	367	43	41	105	117	84	4	93
1,494	37	37	100	—	088	4	Other Skilled Workers	1,164	134	159	84	115	82	21	157
6,157	107	160	67	—	089	5	Other Workers	4,020	573	575	100	143	102	69	120
14,128	295	377	78	—	—	—	2. MAKERS OF OTHER PRODUCTS	8,758	1,317	1,272	104	150	107	96	73
831	30	27	111	—	090	2	Employers and Managers	536	41	61	67	76	54	5	122
616	18	19	95	14	091	3	Foremen and Overlookers	458	46	46	100	100	71	2	43
1,046	13	31	42		092	4	Kiln Men and Lime Burners	703	75	92	82	107	76	3	40
2,324	44	64	69		098	4	Other Skilled Workers	1,463	164	208	79	112	80	11	67
9,311	190	236	81		099	5	Other Workers	5,598	991	865	115	177	126	75	76
69,423	**2,337**	**1,844**	**127**	—	—	—	**V. Makers of Bricks, Pottery and Glass**	**42,092**	**6,947**	**5,998**	**116**	**165**	**118**	**657**	**95**
49,190	1,696	1,342	126	—	—	—	1. MAKERS OF BRICKS, POTTERY AND EARTHENWARE	29,870	4,737	4,167	114	159	114	467	99
2,918	93	99	94	—	100	2	Employers and Managers	1,865	164	196	84	88	63	7	43
1,375	48	47	102	—	101	3	Foremen and Overlookers	970	64	97	66	66	47	4	63
7,169	166	185	90	15	102	4	Brick and Unglazed Tile—Makers, Moulders, Pressers and Cutters	4,251	673	641	105	158	113	37	55
361	10	9	111		103	3	Furnace and Crucible Pot Makers	246	24	33	73	98	70	—	—
1,187	52	32	163	15	104	4	Potters' Mill Workers; Slip Makers and Arkmen	760	108	103	105	142	101	14	130
7,007	329	198	166		105	3	Potters; Ware—Makers, Casters and Finishers	4,479	604	587	103	135	96	63	104
621	27	14	193	16	107	3	Dippers and Glazers	441	75	67	112	170	121	11	147
1,496	71	52	137		108	3	Painters, Printers, Decorators	837	65	89	73	78	56	9	138
9,571	350	255	137	16, 17	109	3	Kiln and Oven Men; Kiln Setters and Placers	6,461	983	894	110	152	109	108	110
280	1	8	13		110	3	Kiln and Oven Oddmen	161	6	25	24	37	26	—	—
2,878	98	73	134	17	118	3	Other Skilled Workers	1,776	233	255	91	131	94	26	112
14,327	451	370	122		119	5	Other Workers	7,623	1,738	1,180	147	228	163	188	108
20,233	641	502	128	—	—	—	2. MAKERS OF GLASS AND GLASS WARE	12,222	2,210	1,831	121	181	129	190	86
947	26	29	90	—	120	2	Employers and Managers	661	41	73	56	62	44	2	49
482	20	14	143	—	121	3	Foremen and Overlookers	358	29	41	71	81	58	2	69
1,026	27	29	93	18	122	3	Teazers and Founders	702	146	94	155	208	149	10	68
976	27	17	159		123	3	Gatherers	686	168	130	129	245	175	18	107
5,060	161	123	131		124	3	Blowers and Finishers (not Machine Hands)	3,142	649	506	128	207	148	72	111
2,316	70	59	119		125	3	Moulders and Pressers	1,445	417	213	196	289	206	16	38
610	29	15	193	19	126	3	Engravers and Cut Glass Workers	339	33	51	65	97	69	1	30
626	40	17	235		127	3	Glass Bevellers	442	74	52	142	167	119	9	122
6,225	187	150	125		138	3	Other Skilled Workers	3,507	533	526	101	152	109	44	83
1,965	54	49	110	—	139	5	Other Workers	940	120	145	83	128	91	16	133
52,150	**1,281**	**1,431**	**90**	—	—	—	**VI. Workers in Chemical Processes; Makers of Paints, Oils, etc.**	**33,689**	**4,589**	**4,666**	**98**	**136**	**97**	**421**	**92**
31,512	784	881	89	—	—	—	1. WORKERS IN CHEMICAL PROCESSES	20,706	2,591	2,784	93	125	89	240	93
2,782	91	90	101	—	140	2	Employers and Managers	1,899	174	211	82	92	66	11	63
2,302	59	71	83	19	141	3	Foremen and Overlookers	1,732	124	188	66	72	51	14	113
1,099	26	29	90		142	3	Distillers and Stillmen	792	96	113	85	121	86	7	73
6,715	81	168	48		143	3	Process Men and Furnacemen	5,010	460	715	64	92	66	46	100
3,936	83	106	78		148	3	Other Skilled Workers	2,527	248	346	72	98	70	20	81
14,678	444	417	106		149	5	Other Workers	8,746	1,489	1,211	123	170	121	142	95
20,638	497	550	90	—	—	—	2. MAKERS OF PAINTS, OILS (NOT MINERAL), ETC.	12,983	1,998	1,882	106	154	110	181	91
2,737	71	87	82	—	150	2	Employers and Managers	1,830	144	200	72	79	56	11	76
1,457	26	44	59	20	151	3	Foremen and Overlookers	1,095	74	126	59	68	49	6	81
1,879	42	50	84		152	3	Paint Grinders	1,196	164	181	91	137	98	12	73
3,676	88	102	86		158	3	Other Skilled Workers	2,355	291	331	88	124	89	16	55
10,889	270	267	101		159	5	Other Workers	6,507	1,325	1,044	127	204	146	136	103

(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1,229,392	**29,248**	**30,376**	**96**	—	—	—	**VII. Metal Workers (not Electro Plate or Precious Metals)**	**747,994**	**110,359**	**113,053**	**98**	**148**	**106**	**8,773**	**79**
77,091	1,799	2,381	76	—	—	—	1. EMPLOYERS, MANAGERS, FOREMEN	56,266	3,969	6,469	61	58	41	243	61
46,841	1,166	1,463	80	—	160	2	Employers and Managers	32,709	2,750	3,743	73	84	60	147	53
							Foremen and Overlookers :								
2,254	47	73	64	—	164	3	Foundry	1,745	74	177	42	42	30	10	135
2,340	10	59	17	—	165	3	Machine Shop	1,964	53	256	21	27	19	3	57
3,753	78	112	70	—	166	3	Fitting and Erecting Shop	2,999	124	347	36	41	29	4	32
21,903	498	674	74	—	169	3	Other and Undefined	16,849	968	1,946	50	57	41	79	82
25,014	830	655	127	—	—	—	2. FURNACEMEN (NOT FOUNDRY) AND PUDDLERS	17,013	3,708	2,536	146	218	156	316	85
244	3	9	33	20	170	3	Converters	145	20	18	111	138	99	—	—
19,672	613	484	127	20	171	3	Skilled Furnacemen (including Keepers and Melters)	13,889	3,033	2,072	146	218	156	250	82
4,476	190	145	131	20, 21	172	3	Puddlers	2,539	596	384	155	235	168	62	104
51	1	0	—	—	173	3	Pulpitmen	31	4	6	67	129	92	—	—
571	23	17	135	20	174	3	Shinglers	409	55	56	98	134	96	4	73
9,447	252	233	108	20	178	3	3. ROLLERS	6,441	1,214	973	125	188	134	87	72
104,001	2,956	2,635	112	—	—	—	4. FOUNDRY WORKERS	65,420	10,961	9,965	110	168	120	1,056	96
61,329	1,626	1,455	112	21	180	3	Moulders (not Blast Furnace)	39,249	6,918	6,208	111	176	126	570	82
3,327	78	93	84	22	182	4	Iron or Steel Foundry Furnace and Cupola Men	2,369	369	322	115	156	111	35	95
33,300	1,058	924	115		183	4	Iron or Steel Foundry Labourers	19,937	3,012	2,880	105	151	108	389	129
951	25	26	96	22	184	3	Brass, Bronze Foundry Furnacemen and Casters (not Moulders)	665	139	88	158	209	149	10	72
3,021	144	86	167		185	4	Brass, Bronze Foundry Labourers	1,834	417	267	156	227	162	39	94
805	15	19	79	—	188	3	Other Foundry (not Type) Furnacemen and Casters	572	48	85	56	84	60	6	125
1,268	10	32	31	—	189	4	Other Foundry (not Type) Labourers	794	58	115	50	73	52	7	121
106,154	2,924	3,067	95	23	190	3	5. SMITHS AND SKILLED FORGE WORKERS	64,713	9,123	8,866	103	141	101	742	81
118,351	2,464	2,594	95	23	200	4	6. MACHINE TOOL WORKERS	71,193	10,086	11,554	87	142	101	746	74
210,800	4,464	4,783	93	—	—	—	7. FITTERS AND MILLWRIGHTS	123,675	19,797	19,655	101	160	114	1,416	72
155,885	3,628	3,399	107	24	210	3	Erectors, Fitters	89,513	15,982	14,510	110	179	128	1,055	66
7,352	112	138	81		211	3	Tool Setters	4,856	758	866	88	156	111	63	83
8,239	181	230	79		212	3	Millwrights	5,581	612	758	81	110	79	46	75
39,324	543	1,016	53	—	213	4	Erectors', Fitters', Millwrights' Labourers	23,725	2,445	3,521	69	103	74	252	103
578,534	13,559	14,028	97	—	—	—	8. OTHER WORKERS	343,273	51,501	53,035	97	150	107	4,167	81
5,443	141	143	99	—	220	3	Annealers, Softeners, Hardeners and Temperers	3,774	544	537	101	144	103	50	92
627	21	15	140	—	221	3	Art Metal Workers	355	59	55	107	166	119	2	34
38,876	942	950	99	24	222	3	Boiler Makers; Platers, and Iron Shipwrights	23,403	3,692	3,683	100	158	113	250	68
13,036	297	336	88		223	4	Boiler Makers' and Platers' Labourers	7,601	1,434	1,156	124	189	135	131	91
10,528	352	273	129	25	224	3	Brass Finishers and Turners	6,182	965	915	105	156	111	67	69
289	5	8	63	—	225	3	Card Clothing—Clothiers, Setters, Nailers	164	14	20	70	85	61	1	71
5,607	119	121	98	—	226	3	Constructional Engineers (not Professional), Steel Erectors, Structural Ironworkers	3,688	618	587	105	168	120	51	83
4,106	112	102	110	25	227	3	Coppersmiths	2,495	378	390	97	152	109	25	66
3,027	122	97	126	26	228	3	Cutlers (so returned)	1,701	219	227	96	129	92	18	82
6,552	130	150	87	24	229	3	Cycle—Makers, Fitters and Mechanics	3,550	407	529	77	115	82	21	52
1,738	38	42	90	—	230	3	Die Cutters and Sinkers	1,024	118	157	75	115	82	9	76
2,033	47	53	89	—	231	4	Drillers (Hand, Pneumatic or Electric)	1,374	228	197	116	166	119	29	127
1,425	80	44	182	26	232	3	File Cutters (Hand or Machine)	810	108	111	97	133	95	11	102
3,562	112	107	105	—	233	4	Filers	2,107	329	282	117	156	111	34	103
1,638	63	39	162	—	234	4	Galvanizers	1,132	253	172	147	223	159	28	111
10,709	291	261	111	27	235	3	Gasfitters	7,039	1,144	1,039	110	163	116	81	71
1,171	28	24	117	—	236	4	Gasfitters' Labourers	623	135	107	126	217	155	9	67
13,614	584	307	190	27, 28	237	4	Grinders	9,110	1,287	1,466	88	141	101	116	90
8,890	300	208	144	28	238	4	Glazers, Polishers, Buffers and Moppers	6,095	1,253	932	134	206	147	112	89
1,591	32	52	62	—	239	3	Gunsmiths and Gun Lock and Action Makers	949	87	110	79	92	66	5	57
3,605	88	96	92	—	240	3	Heating and Ventilating Engineers (so returned)	2,337	273	323	85	117	84	11	40
2,018	50	49	102	—	241	4	Japanners, Enamellers and Stovers	1,239	190	187	102	153	109	23	121
928	13	21	62	—	242	3	Lead Burners and Chemical Plumbers	645	70	99	71	109	78	2	29
2,655	93	87	107	—	243	3	Lock, Latch and Key Makers; Locksmiths	1,430	195	186	105	136	97	18	92
63,789	1,019	1,521	67	24	244	3	Mechanical Engineers; Engineers (not Engine Drivers)	34,338	3,251	5,056	64	95	68	180	55
11,242	156	260	60		245	3	Mechanics (so returned)	6,614	441	1,027	43	67	48	24	54
16,070	765	469	163	—	246	4	Mechanical Engineers', Engineers' and Mechanics' Labourers	9,365	2,298	1,284	179	245	175	206	90
745	20	15	133	23	247	3	Metal Spinners	467	77	83	93	165	118	8	104
41,987	705	637	111	24	248	3	Motor Mechanics (so returned)	22,032	4,732	4,309	110	215	154	295	62
4,373	62	72	86	—	249	3	Oxy-Acetylene or Electric—Welders and Cutters	3,017	484	581	83	160	114	37	76
1,785	53	43	123	—	250	4	Picklers	1,189	246	180	137	207	148	21	85
4,867	84	129	65	27	251	3	Pipe Fitters	3,442	346	474	73	101	72	37	107
39,081	942	1,014	93	29	252	3	Plumbers (not Chemical Plumbers)	24,524	2,944	3,398	87	120	86	198	67
5,834	129	123	105	—	253	4	Plumbers' Labourers	2,890	429	485	88	148	106	46	107

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* The calculated deaths are those which would have occurred if the mortality rate at each age group in the several occupations had been the same as that for all occupied and retired civilian males.

† The calculated births are those which would have occurred if the fertility rates at the various age groups in the several occupations had borne the same relations to each other as those stated for all married males in Table 12 of the Dependency, Orphanhood, and Fertility volume of the 1921 census. The rates used for calculation are based on those returned in that table, but are so increased as to yield the number of births registered in 1921.

TABLE A.—MORTALITY OF MALES, AGED 20–65 (1921–1923); FERTILITY AND INFANT MORTALITY (1921), IN EACH OCCUPATION—*continued.*

MORTALITY OF MALES, AGED 20–65 YEARS, IN EACH OCCUPATION (1921–1923).								LEGITIMATE FERTILITY, 1921.						INFANT MORTALITY (1921).	
Number of Males aged 20–65 Years. (Census 1921).	Registered Deaths of Males aged 20–65 Years.	Calculated* Deaths of Males aged 20–65 Years.	Ratio of Registered to 100 Calculated Deaths.	For further information, *see* page i.	Occupation Code Number.	Social Class.	OCCUPATION.	Number of Married Males under 55 Years of Age. (Census 1921).	Registered Legitimate Births.	Calculated Legitimate Births.†	Ratio of Registered to 100 Calculated Births.	Crude Birth-rate per 1,000 Married Males under 55 Years of Age.	Crude Birth-rate compared with that of all Males taken as 100.	Deaths of Legitimate Infants under 1 Year of Age.	Infant Mortality per 1,000 Births.
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*		*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*
							VII.—Metal Workers (not Electro Plate or Precious Metals)—*continued.*								
							8.—OTHER WORKERS—*continued.*								
3,721	99	86	115	—	254	4	Press Workers and Stampers (not Hot or Hydraulic); Drawers (not Wire or Tube)	2,236	452	365	124	202	144	42	93
21,549	544	509	107	29	255	3	Rivetters	13,946	3,119	2,312	135	224	160	301	97
1,294	29	22	132		256	4	Rivetters' Labourers	486	133	96	139	274	196	18	135
1,195	37	38	97	—	257	3	Roller Engravers and Block Cutters	675	60	77	78	89	64	3	50
541	12	17	71	—	258	3	Safe Makers	314	44	42	105	140	100	3	68
521	16	14	114	—	259	4	Sand Blasters	377	45	55	82	119	85	4	89
2,218	36	51	71	—	260	3	Scale and Weighing Machine—Makers, Fitters and Adjusters ..	1,330	152	203	75	114	81	14	92
972	23	28	82	—	261	3	Signal Linemen	679	48	80	60	71	51	9	188
1,073	24	27	89	—	262	4	Solderers and Brazers	659	87	98	89	132	94	5	57
2,105	54	54	100	—	263	4	Tinners	1,284	180	192	94	140	100	17	94
26,820	710	704	101	30	264	3	Tinsmiths; Sheet Metal Workers	15,999	2,300	2,412	95	144	103	165	72
14,658	256	299	86	24	265	3	Tool Makers (so returned)	8,808	1,297	1,500	86	147	105	84	65
2,327	79	50	158	—	266	3	Tube Drawers and Welders	1,581	412	271	152	261	186	38	92
812	16	13	123	—	267	3	Typewriter Repairers	423	96	81	119	227	162	4	42
5,300	103	119	87	—	268	3	Wire Drawers and Makers	3,182	518	544	95	163	116	41	79
1,513	54	36	150	—	269	3	Wire Weavers and Wire Rope Makers	961	170	154	110	177	126	13	76
66,563	1,522	1,699	90	20	278	3	Other Skilled Workers	41,365	5,422	6,200	87	131	94	459	85
91,911	1,950	2,394	81	20	279	5	Other Workers	52,263	7,718	8,009	96	148	106	791	102
23,482	**624**	**633**	**99**	—	—	—	**VIII. Workers in Precious Metals and Electro Plate**	**14,595**	**1,866**	**2,046**	**91**	**128**	**91**	**135**	**72**
3,073	58	99	59	—	280	2	Employers and Managers	2,093	153	234	65	73	52	9	59
429	12	12	100	—	281	3	Foremen and Overlookers	327	20	37	54	61	44	—	—
2,155	53	52	102	—	282	3	Electro Platers, Nickel Platers	1,319	185	198	93	140	100	9	49
1,035	41	33	124	—	283	3	Engravers and Chasers	572	72	74	97	126	90	7	97
5,752	144	151	95	30	284	3	Goldsmiths and Gem Setters	3,250	361	486	74	111	79	25	69
2,229	57	53	108	—	285	3	Polishers and Scratch Brushers	1,571	269	234	115	171	122	23	86
843	25	22	114	—	286	3	Pressers, Saw Piercers and Stampers	541	97	78	124	179	128	10	103
5,037	131	135	97	30	287	3	Silver and White Metal Smiths	3,112	430	453	95	138	99	30	70
978	22	26	85		288	3	Mounters	624	80	83	96	128	91	8	100
1,599	76	42	181	—	298	3	Other Skilled Workers	993	167	141	118	168	120	14	84
352	5	8	63	—	299	4	Other Workers	193	32	28	114	166	119	—	—
112,758	**1,878**	**2,207**	**85**	—	—	—	**IX. Electrical Apparatus Makers and Fitters (not elsewhere enumerated), and Electricians.**	**67,770**	**9,902**	**11,137**	**89**	**146**	**104**	**654**	**66**
4,485	48	111	43	—	300	2	Employers and Managers	3,386	290	444	65	86	61	17	59
4,152	65	103	63	—	301	3	Foremen and Overlookers	3,396	210	444	47	62	44	7	33
416	5	9	56	—	302	3	Accumulator Makers and Pasters	297	25	49	51	84	60	3	120
2,712	29	46	63	—	303	3	Coil Winders	1,470	258	274	94	176	126	16	62
343	1	8	13	—	304	3	Coil Insulators	245	13	41	32	53	38	1	77
18,401	420	342	123	31	305	3	Electrical Engineers (not otherwise described)	10,143	1,492	1,658	90	147	105	87	58
8,432	120	151	79		306	3	Electrical Fitters (not otherwise described)	5,062	857	871	98	169	121	53	62
27,478	335	499	67		307	3	Electricians (not otherwise described)	15,488	1,594	2,671	60	103	74	102	64
2,742	33	55	60	—	308	3	Inspectors, Viewers and Testers	1,744	212	267	79	122	87	2	94
3,386	46	62	74	31	309	3	Instrument Makers and Assemblers	1,808	228	326	70	126	90	17	75
3,659	34	65	52	—	310	3	Telegraph and Telephone Mechanics (Installation and Repairs) ..	2,065	291	358	81	141	101	12	41
19,609	509	403	126	31	311	3	Wiremen, Linesmen, Cable Jointers	12,933	3,183	2,089	152	246	176	235	74
4,903	56	97	58	—	318	3	Other Skilled Workers	2,974	415	498	83	140	100	28	67
12,040	177	256	69	—	319	4	Other Workers	6,759	834	1,147	73	123	88	74	89
19,261	**488**	**537**	**91**	—	—	—	**X. Makers of Watches, Clocks and Scientific Instruments**	**10,409**	**1,078**	**1,450**	**74**	**104**	**74**	**69**	**64**
2,182	103	74	139	—	320	2	Employers and Managers	1,446	200	157	127	138	99	8	40
305	2	7	29	—	321	3	Foremen and Overlookers	218	9	28	32	41	29	—	—
4,087	84	87	97	31	322	3	Scientific Instrument Makers and Repairers	2,298	268	376	71	117	84	19	71
11,852	273	345	79		323	3	Watch, Clock and Chronometer Makers and Repairers ..	6,036	545	829	66	90	64	39	72
226	9	7	129		324	3	Watch and Clock Movement Makers	113	9	15	60	80	57	1	111
187	9	6	150	30	325	3	Watch Case Makers	89	8	12	67	90	64	1	125
244	6	7	86	—	328	3	Other Skilled Workers	123	17	21	81	138	99	—	—

45,971	**1,351**	**1,367**	**99**	—	—	—	**XI. Workers in Skins and Leather, and Makers of Leather and Leather Substitute Goods (not Boots or Shoes).**	**27,078**	**3,317**	**3,503**	**95**	**122**	**87**	**238**	**72**
24,285	735	696	106	—	—	—	1. Furriers, Skinners, Tanners and Leather Dressers	14,223	2,004	1,952	103	141	101	157	78
2,383	54	76	71	—	330	2	Employers and Managers	1,541	141	191	74	91	65	4	28
726	19	23	83	—	331	3	Foremen and Overlookers (including Head Warehousemen and Chief Sorters)	541	31	60	52	57	41	5	161
1,657	55	39	141	—	332	3	Furriers, Fur Sewers and Fur Machinists	807	188	130	145	233	166	13	69
1,958	51	57	89	32	333	3	Lime and Tan Yard Workers (not Labourers)	1,133	150	162	93	132	94	11	73
6,973	254	209	122	32	334	3	Curriers and Leather Dressers	3,938	629	533	118	160	114	54	86
1,259	34	35	97	—	335	3	Enamellers, Japanners, Dyers, Stainers and Finishers	741	82	110	75	111	79	7	85
5,659	159	154	103	32	338	3	Other Skilled Workers	3,508	412	484	85	117	84	32	78
3,670	109	103	106	—	339	4	Other Workers	2,014	371	282	132	184	131	31	84
21,686	616	671	92	—	—	—	2. Makers of Leather and Leather Substitute Goods (not Boots or Shoes)	12,855	1,313	1,551	85	102	73	81	62
2,972	124	107	116	—	340	2	Employers and Managers	1,972	189	193	98	96	69	9	48
426	8	13	62	32	341	3	Foremen and Overlookers	334	22	38	58	66	47	2	91
917	25	27	93		342	3	Cutters-out	492	60	61	98	122	87	2	33
2,183	36	65	55		343	3	Belting Makers, Sewers and Repairers	1,494	176	183	96	118	84	8	45
8,203	253	280	90		344	3	Saddlers and Harness Makers	4,546	385	490	79	85	61	29	75
2,278	60	56	107		345	3	Makers of Bags and Trunks	1,377	203	208	98	147	105	10	49
4,255	97	113	86		348	3	Other Skilled Workers	2,432	253	346	73	104	74	20	79
452	13	10	130	—	349	4	Other Workers	208	25	32	78	120	86	1	40
274,188	**8,144**	**7,724**	**105**	—	—	—	**XII. Textile Workers**	**160,463**	**17,572**	**22,098**	**80**	**110**	**79**	**1,504**	**86**
18,021	518	610	85	—	350	2	Employers and Managers	11,710	780	1,231	63	67	48	29	37
							Foremen and Overlookers:								
733	20	21	95	33, 34	351	3	Blowing Room	528	22	68	32	42	30	5	227
291	3	10	30	33	352	3	Sorting and Blending	214	6	22	27	28	20	2	333
4,322	106	130	82	34, 35	353	3	Carding, Combing and Drawing	3,079	233	370	63	76	54	17	73
4,270	104	122	85	36	354	3	Spinning and Doubling (not Silk Doubling)	2,997	268	385	70	89	64	24	90
1,641	32	47	68	37	355	3	Winding, Warping, Slashing or Sizing; Silk Doubling	1,203	72	142	51	60	43	4	56
12,312	271	357	76	38, 39	356	3	Weaving	8,868	659	1,078	61	74	53	40	61
8,694	235	275	85	—	359	3	Other or Undefined	6,161	350	685	51	57	41	27	77
2,847	118	93	127	33	360	3	Wool Sorters	1,512	142	195	73	94	67	9	63
1,033	19	34	56	—	361	3	Rag and Wool Carbonisers and Washers	613	57	78	73	93	66	5	88
6,055	252	187	135	33, 34	362	4	Breakers, Rag Grinders, Hecklers and Willowers	3,467	463	466	99	134	96	38	82
7,788	383	229	167	34, 35	363	4	Card, Comb and Frame Tenters (not Ring, Cap or Flyer Frame); Box Minders	4,109	734	593	124	179	128	82	112
7,067	198	175	113	35	364	4	Strippers and Grinders; Card Grinders, Card Room Jobbers	4,739	566	743	76	119	85	52	92
37,600	1,121	917	122	36	365	3	Spinners and Piecers (Mule, Ring, Cap and Flyer)	21,168	2,801	3,230	87	132	94	252	90
4,500	161	110	146	37	366	4	Doublers and Doubling Frame Tenters (not Silk)	2,490*	460	404	114	185	132	42	91
4,973	113	144	78		367	3	Winders (not Silk), Reelers, Beamers, Warpers (not Lace)	2,951	260	389	67	88	63	27	104
5,072	174	136	128		368	3	Drawers-in and Twisters-in	3,026	229	422	54	76	54	24	105
5,579	167	179	93	—	369	3	Sizers, Slashers and Tapers	3,783	256	426	60	68	49	17	66
45,629	1,378	1,242	111	38, 39	370	3	Weavers	24,695	2,779	3,613	77	113	81	217	78
135	6	3	200	—	371	3	Silk Winders, Clearers and Doublers	66	7	11	64	106	76	2	286
557	17	11	155	—	372	4	Silk Throwsters	343	122	58	210	356	254	2	16
1,062	45	32	141	—	373	4	Rope Makers, Layers and Stranders	527	68	69	99	129	92	4	59
4,941	148	155	95	39	374	3	Hosiery Frame Tenters and Machine Knitters	2,598	282	359	79	109	78	20	71
118	8	3	267	—	375	3	Hand Knitters	58	7	7	100	121	86	—	—
3,809	105	130	81	—	376	3	Lace Machine Tenters and Warp Hands	2,223	282	273	103	127	91	10	35
105	7	4	175	—	377	3	Hand Lace Workers	65	2	10	20	31	22	1	500
513	7	15	47	—	378	3	Felt Formers, Batters and Hardeners (not Hats)	296	20	40	50	68	49	3	150
4,412	114	124	92	—	379	3	Lookers and Examiners; Burlers and Menders	2,819	226	376	60	80	57	17	75
1,956	46	52	88	—	380	4	Croft Workers (not Labourers)	1,083	154	152	101	142	101	19	123
18,222	671	514	131	40	381	4	Dye Mixers and Dyers	10,805	1,492	1,523	98	138	99	134	90
480	17	15	113	—	382	3	Block Printers and Aerographers	259	40	42	95	154	110	3	75
1,324	28	40	70	—	383	3	Machine Printers (Textile)	790	63	109	58	80	57	4	63
19,241	532	527	101	40	384	3	Scourers (Woollen, Worsted and Hosiery); Calenderers and Finishers	11,062	1,278	1,563	82	116	83	134	105
768	19	20	95	—	385	3	Scollopers, Clippers and Lace Warehouse Hands	365	32	51	63	88	63	4	125
270	6	7	86	—	396	3	Jacquard Punchers and Card Cutters	171	20	23	87	117	84	1	50
90	—	2	—	—	397	3	Heald Knitters	54	7	8	88	130	93	—	—
11,065	308	306	101	—	398	3	Other Skilled Workers	6,092	696	849	82	114	81	53	76
26,693	687	746	92	—	399	4	Other Workers	13,474	1,637	2,035	80	121	86	180	110
235,267	**7,385**	**6,848**	**108**	—	—	—	**XIII. Makers of Textile Goods and Articles of Dress**	**136,908**	**15,835**	**17,583**	**90**	**116**	**83**	**1,115**	**70**
34,620	1,526	1,109	138	—	400	2	Employers and Managers	24,767	3,205	2,714	118	129	92	173	54
5,501	106	168	63	—	401	3	Foremen and Overlookers	4,275	216	463	47	51	36	12	56
							Cutters (not Hats, Gloves or Boots):								
10,008	288	244	118	41	402	3	Skilled	5,800	668	799	84	115	82	25	37
3,636	76	92	83	—	403	3	Knife or Machine Cutters	2,214	200	291	69	90	64	13	65
62,114	1,799	1,782	101	41	404	3	Tailors; Tailors' Pressers and Machinists	33,296	3,861	4,326	89	116	83	289	75
699	10	19	53	—	405	3	Dress and Blouse Makers	328	35	41	85	107	76	5	143
285	9	7	129	—	406	3	Corset Makers and Machinists	147	9	17	53	61	44	—	—

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* The calculated deaths are those which would have occurred if the mortality rate at each age group in the several occupations had been the same as that for all occupied and retired civilian males.

† The calculated births are those which would have occurred if the fertility rates at the various age groups in the several occupations had borne the same relations to each other as those stated for all married males in Table 12 of the Dependency, Orphanhood, and Fertility volume of the 1921 census. The rates used for calculation are based on those returned in that table, but are so increased as to yield the number of births registered in 1921.

TABLE A.—Mortality of Males, aged 20–65 (1921–1923); Fertility and Infant Mortality (1921), in each Occupation—*continued.*

Mortality of Males, aged 20–65 Years, in each Occupation (1921–1923).								Legitimate Fertility, 1921.						Infant Mortality (1921).	
Number of Males aged 20–65 Years. (Census 1921).	Registered Deaths of Males aged 20–65 Years.	Calculated* Deaths of Males aged 20–65 Years.	Ratio of Registered to 100 Calculated Deaths.	For further information, *see* page i.	Occupation Code Number.	Social Class.	Occupation.	Number of Married Males under 55 Years of Age. (Census 1921).	Registered Legitimate Births.	Calculated Legitimate Births.†	Ratio of Registered to 100 Calculated Births.	Crude Birth-rate per 1,000 Married Males under 55 Years of Age.	Crude Birth-rate compared with that of all Males taken as 100.	Deaths of Legitimate Infants under 1 Year of Age.	Infant Mortality per 1,000 Births.
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*		*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*
							XIII.—Makers of Textile Goods and Articles of Dress—*continued.*								
313	5	6	83	—	407	3	Embroiderers and Embroidery Machinists	165	20	29	69	121	86	1	50
339	10	8	125	—	408	3	Milliners	157	23	23	100	146	104	1	43
3,932	172	125	138	42	409	3	Hat—Formers, Plankers, Stiffeners	2,339	326	288	113	139	99	24	74
2,761	55	82	67	—	410	3	Hat—Sewers, Finishers, Trimmers	1,581	111	201	55	70	50	11	99
1,155	32	29	110	—	411	3	Glove (not Knitted or Rubber)—Makers, Cutters, Sewers and Machinists	652	79	89	89	121	86	3	38
50,395	1,529	1,550	99	42	412	3	Boot and Shoe Makers and Repairers (so returned)	26,609	2,756	3,474	79	104	74	216	78
13,239	373	331	113	43	413	3	Boot, Shoe Slipper—Clickers and Cutters	7,749	963	1,130	85	124	89	67	70
29,207	902	806	112	43	414	3	Other Defined—Skilled—Boot, etc., Factory Operatives	17,395	2,505	2,429	103	144	103	220	88
2,416	74	78	95	—	415	3	Clog Makers	1,250	98	158	62	78	56	6	61
692	31	24	129	—	416	3	Umbrella, Parasol—Makers, Coverers, Repairers	362	32	42	76	88	63	—	—
422	17	14		—	417	4	Sack Makers	216	20	26	77	93	66	4	200
2,850	69	90	77	—	418	4	Tarpaulin, Tent, Sail and other Canvas Goods—Makers, Dressers, Repairers	1,643	182	213	85	111	79	16	88
1,182	34	31	110	—	419	4	Sewers, Stitchers, Sewing Machinists (not elsewhere enumerated)	577	64	85	75	111	79	—	—
1,795	60	51	118	—	428	3	Other Skilled Workers	1,068	85	137	62	80	57	7	82
7,706	208	202	103	—	429	4	Other Workers	4,318	377	608	62	87	62	22	58
161,908	**4,473**	**4,569**	**98**	—	—	—	**XIV. Makers of Foods, Drinks and Tobacco**	**99,497**	**12,477**	**13,396**	**93**	**125**	**89**	**907**	**73**
120,119	2,918	3,318	88	—	—	—	1. MAKERS OF FOODS	74,761	9,127	10,170	90	122	87	643	70
20,528	659	674	98	—	430	2	Employers and Managers	14,874	1,534	1,607	95	103	74	95	62
4,526	89	137	65	—	431	3	Foremen and Overlookers	3,495	264	389	68	76	54	19	72
8,242	199	247	81	44	432	3	Grain Millers	4,673	606	648	94	130	93	34	56
52,219	1,201	1,386	87	44	433	3	Bakers and Pastry Cooks (including Biscuit Makers)	30,810	3,841	4,380	88	125	89	284	74
2,826	56	69	81	—	434	3	Sugar and Sweet Boilers	1,736	162	267	61	93	66	14	86
3,506	58	74	78	—	435	3	Sugar Confectionery—Makers, Moulders and Coverers	2,028	335	343	98	165	118	18	54
360	7	9	78	—	436	3	Jam Boilers	232	27	29	93	116	83	3	111
1,977	83	53	157	—	437	3	Meat and Fish Curers and Smokers	1,307	257	193	133	197	141	21	82
10,578	245	277	88	—	448	3	Other Skilled Workers	6,767	728	971	75	108	77	43	59
15,357	321	392	82	—	449	4	Other Workers	8,839	1,373	1,343	102	155	111	112	82
36,091	1,386	1,103	126	—	—	—	2. MAKERS OF DRINKS	21,459	2,921	2,740	107	136	97	236	81
4,520	186	174	107	—	450	2	Employers and Managers	2,740	181	264	69	66	47	10	55
2,865	103	98	105	—	451	3	Foremen and Overlookers	2,069	119	210	57	58	41	6	50
2,813	112	89	126	—	452	4	Maltsters	1,671	278	217	128	166	119	29	104
2,118	96	68	141	45	453	4	Brewers of Ale, Stout or Porter	1,077	130	121	107	121	86	11	85
367	4	8	50	—	454	4	Distillers and Stillmen	273	14	40	35	51	36	2	143
5,457	228	152	150	45	455	4	Cellarmen	3,173	443	426	104	140	100	33	74
1,188	30	34	88	—	458	4	Other Skilled Workers	725	59	92	64	81	58	3	51
16,763	627	480	131	—	459	4	Other Workers	9,731	1,697	1,370	124	174	124	142	84
5,698	169	148	114	—	—	—	3. MAKERS OF TOBACCO, CIGARS, CIGARETTES, SNUFF	3,277	429	486	88	131	94	28	65
652	26	22	118	—	460	2	Employers and Managers	408	34	44	77	83	59	—	—
437	10	14	71	46	461	3	Foremen and Overlookers	314	23	33	70	73	52	2	87
3,960	120	97	124		468	3	Other Skilled Workers	2,227	315	354	89	141	101	24	76
649	13	15	87		469	4	Other Workers	328	57	55	104	174	124	2	35
395,598	**10,091**	**11,441**	**88**	—	—	—	**XV. Workers in Wood and Furniture**	**236,236**	**28,973**	**31,774**	**91**	**123**	**88**	**2,014**	**70**
375,943	9,624	10,920	88	—	—	—	1. WORKERS IN WOOD	224,621	27,433	30,144	91	122	87	1,900	69
18,383	747	619	121	—	470	2	Employers and Managers	12,597	1,602	1,372	117	127	91	93	58
8,859	181	296	61	—	471	3	Foremen and Overlookers	6,577	288	699	41	44	31	22	76
5,584	173	168	103	—	472	3	Basket Makers	2,798	349	352	99	125	89	30	86
28,269	799	779	103	47	473	3	Cabinet Makers	16,282	2,301	2,284	101	141	101	169	73
164,746	3,989	5,006	80	47	474	3	Carpenters	97,664	11,134	12,747	87	114	81	715	64
14,692	425	460	92	47	475	3	Cartwrights, Wheelwrights, Wagonwrights	8,265	955	1,052	91	116	83	48	50
17,793	368	437	84	47	476	3	Coach and Carriage Builders (including Tramcars and Railway Carriages); Body Builders.	11,122	1,378	1,663	83	124	89	67	49
8,313	369	274	135	47	477	3	Coopers, Hoop Makers and Benders	4,771	641	606	106	134	96	49	76

6,852	199	185	108	47	479	4	Packing Case Makers								
11,515	238	271	88	47	480	3	Pattern Makers (Wood or Undefined)	6,307	799	981	81	127	91	56	70
15,533	449	448	100	48	481	4	Sawyers	9,308	1,483	1,279	116	159	114	107	72
1,481	28	37	76	47	482	3	Shipwrights and Boat and Barge Builders (Wood)	829	116	129	90	140	100	12	103
678	21	20	105	—	483	3	Shopfitters (so returned)	419	61	53	115	146	104	10	164
808	23	27	85	—	484	3	Walking and Umbrella Stick—Makers, Benders, Dressers	416	62	50	124	149	106	3	48
5,546	154	166	93	—	485	3	Wood Carvers ; Carvers and Gilders ; Picture Frame Makers	3,188	317	416	76	99	71	25	79
20,183	377	504	75	48	486	4	Wood Turners and Machinists	12,949	1,792	1,926	93	138	99	143	80
7,530	170	205	83	—	498	3	Other Skilled Workers	4,426	418	608	69	94	67	29	69
24,972	465	656	71	—	499	5	Other Workers	13,723	1,676	2,074	81	122	87	148	88
19,655	467	521	90	—	—	—	2. OTHER WORKERS	11,615	1,540	1,630	94	133	95	114	74
1,245	61	41	149	—	500	2	Employers and Managers	888	137	97	141	154	110	8	58
444	10	14	71	—	501	3	Foremen and Overlookers	339	15	36	42	44	31	1	67
896	22	26	85	49	502	3	Bedding and Mattress Makers	487	58	64	91	119	85	5	86
1,469	40	49	82	—	503	3	Carpet and Linoleum Planners	961	102	108	94	106	76	8	78
15,219	330	381	87	49	504	3	Upholsterers and Coach Trimmers	8,730	1,197	1,296	92	137	98	89	74
85	2	2	100	—	508	3	Other Skilled Workers	48	6	5	120	125	89	—	—
297	2	8	25	—	509	5	Other Workers	162	25	24	104	154	110	3	120
136,926	**3,532**	**3,768**	**94**	—	—	—	**XVI. Makers of and Workers in Paper ; Printers, Bookbinders, Photographers, etc.**	**82,382**	**9,055**	**10,783**	**84**	**110**	**79**	**560**	**62**
13,462	265	337	79	—	—	—	1. MAKERS OF PAPER, PULP, STRAW AND CARD BOARD	7,888	1,267	1,204	105	161	115	92	73
638	19	22	86	—	510	2	Employers and Managers	408	45	41	110	110	79	2	44
644	17	22	77	49	511	3	Foremen and Overlookers	455	35	44	80	77	55	1	29
1,937	26	50	52		512	3	Vatmen and Machine Men	1,285	165	180	92	128	91	16	97
6,278	108	141	77		518	3	Other Skilled Workers	3,666	597	607	98	163	116	46	77
3,965	95	102	93		519	5	Other Workers	2,074	425	332	128	205	146	27	64
115,419	3,067	3,219	95	—	—	—	2. PRINTERS, BOOKBINDERS AND PHOTOGRAPHERS	69,569	7,257	8,908	81	104	74	446	61
12,175	293	423	69	—	520	2	Employers and Managers	8,287	592	803	74	71	51	29	49
3,823	83	125	66	—	521	3	Foremen and Overlookers	2,914	97	278	35	33	24	6	62
24,729	739	736	100	50	522	3	Compositors—Hand	14,480	1,492	1,804	83	103	74	89	60
5,443	116	132	88	50	523	3	Compositors—Machine Operatives	3,790	318	488	65	84	60	13	41
2,908	61	75	81	—	524	3	Stereotypers and Electrotypers	1,908	205	271	76	107	76	13	63
1,985	28	41	68	—	526	3	Process Engravers	1,210	114	190	60	94	67	9	79
7,288	174	196	89	51	527	3	Photographers	3,994	381	525	73	95	68	29	76
2,281	51	64	80	—	528	3	Lithographic Artists and Transferrers	1,241	107	159	67	86	61	6	56
16,267	390	408	96	51	529	3	Printing Machine Setters and Minders	10,446	1,256	1,465	86	120	86	71	57
6,587	170	150	113		530	4	Machine Assistants	4,078	666	608	110	163	116	47	71
11,107	278	281	99		531	3	Printers (so returned)	5,289	578	725	80	109	78	41	71
6,795	211	196	108	52	532	3	Bookbinders	3,796	416	495	84	110	79	24	58
1,426	34	36	94	51	533	3	Machine Rulers	820	95	119	80	116	83	10	105
732	25	19	132	52	534	3	Pattern Card Makers	444	36	56	64	81	58	2	56
181	6	5	120	—	535	3	Wall Paper Printers—Block	109	22	15	147	202	144	2	91
182	3	4	75	—	536	3	Wall Paper Printers—Machine	116	14	15	93	121	86	2	143
755	29	21	138	—	537	3	Gold and Silver Blockers and Stampers	473	39	63	62	82	59	3	77
98	3	2	150	—	538	3	Bronzers	73	5	9	56	68	49	—	—
6,608	180	197	91	—	548	3	Other Skilled Workers	3,980	395	504	78	99	71	22	56
4,049	193	108	179	—	549	4	Other Workers	2,121	429	316	136	202	144	28	65
8,045	200	212	94	—	—	—	3. MAKERS OF STATIONERY, CARDBOARD BOXES AND OTHER WORKERS IN PAPER	4,925	531	671	79	108	77	22	41
1,953	67	62	108	—	550	2	Employers and Managers	1,379	145	153	95	105	75	4	28
641	6	16	38	—	551	3	Foremen, Overlookers and Form Setters	508	28	63	44	55	39	1	36
468	10	12	83	—	552	3	Pressers, Stampers, Scorers and Punchers	270	31	40	78	115	82	—	—
207	6	5	120	—	553	3	Envelope and Paper Bag Makers	118	5	21	24	42	30	—	—
1,008	28	23	122	—	554	3	Cardboard Box Makers	496	86	80	108	173	124	3	35
2,958	66	74	89	—	558	3	Other Skilled Workers	1,730	189	249	76	109	78	10	53
810	17	20	85	—	559	4	Other Workers	424	47	65	72	111	79	4	85
442,446	**13,850**	**13,958**	**99**	—	—	—	**XVII. Builders, Bricklayers, Stone and Slate Workers ; Contractors**	**265,200**	**39,158**	**32,896**	**119**	**148**	**106**	**3,267**	**83**
28,720	1,008	1,032	98	52	560	2	Employers and Managers	19,381	1,733	1,965	88	89	64	93	54
18,119	527	691	76	53	561	3	Foremen and Gangers	12,271	707	1,090	65	58	41	52	74
2,234	64	88	73	52	562	2	Clerks of Works	1,374	78	126	62	57	41	8	103
13,313	408	462	88	52	563	2	Builders (not otherwise distinguished)	7,178	655	834	79	91	65	37	56
58,616	1,945	1,674	116	57	564	5	Builders' Labourers	34,979	8,016	4,620	174	229	164	747	93
74,257	2,088	2,408	87	53	565	3	Bricklayers	47,059	5,568	5,427	103	118	84	400	72
48,815	1,280	1,333	96	57	566	5	Bricklayers' Labourers	28,293	5,344	4,093	131	189	135	500	94
16,666	551	536	103	54	567	3	Plasterers	10,152	1,321	1,231	107	130	93	102	77
4,684	115	116	99	57	568	5	Plasterers' Labourers	2,930	527	460	115	180	129	54	102
1,723	67	53	126	—	569	3	Glaziers	1,028	171	132	130	166	119	8	47

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* The calculated deaths are those which would have occurred if the mortality rate at each age group in the several occupations had been the same as that for all occupied and retired civilian males.

† The calculated births are those which would have occurred if the fertility rates at the various age groups in the several occupations had borne the same relations to each other as those stated for all married males in Table 12 of the Dependency, Orphanhood, and Fertility volume of the 1921 census. The rates used for calculation are based on those returned in that table, but are so increased as to yield the number of births registered in 1921.

TABLE A.—Mortality of Males, aged 20–65 (1921–1923); Fertility and Infant Mortality, (1921), in each Occupation—*continued.*

Mortality of Males, aged 20–65 Years, in each Occupation (1921–1923).								Legitimate Fertility, 1921.						Infant Mortality (1921).	
Number of Males aged 20–65 Years. (Census 1921).	Registered Deaths of Males aged 20–65 Years.	Calculated* Deaths of Males aged 20–65 Years.	Ratio of Registered to 100 Calculated Deaths.	For further information, *see* page i.	Occupation Code Number.	Social Class.	Occupation.	Number of Married Males under 55 Years of Age. (Census 1921).	Registered Legitimate Births.	Calculated Legitimate Births.†	Ratio of Registered to 100 Calculated Births.	Crude Birth-rate per 1,000 Married Males under 55 Years of Age.	Crude Birth-rate compared with that of all Males taken as 100.	Deaths of Legitimate Infants under 1 Year of Age.	Infant Mortality per 1,000 Births.
(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
							XVII. Builders, Bricklayers, Stone and Slate Workers; Contractors—*continued.*								
4,573	159	150	106	54	570	3	Slaters and Tilers	2,854	405	342	118	142	101	32	79
1,166	26	30	87	—	571	3	Tile Layers; Mosaic Workers and Composition Floor Layers	763	114	102	112	149	106	9	79
26,131	1,360	924	147	55	572	3	Masons	15,302	1,697	1,643	103	111	79	119	70
9,605	281	271	104	57	573	5	Masons' Labourers	4,969	945	695	136	190	136	85	90
1,045	23	31	74	—	574	3	Architectural, Monumental Carvers	597	62	79	78	104	74	—	—
3,960	156	130	120	55	575	3	Stone Cutters and Dressers	2,272	245	260	94	108	77	29	118
2,140	105	66	159	55	576	3	Slate Workers and Slate Masons	1,079	180	129	140	167	119	24	133
45,040	1,212	1,318	92	56	577	4	Platelayers	28,442	4,778	3,829	125	168	120	355	74
1,627	47	53	89	—	578	4	Gas and Water Main Layers	1,060	107	118	91	101	72	8	75
5,463	189	167	113	—	579	4	Paviors and Street Masons; Concreters and Asphalters	3,477	478	433	110	137	98	38	79
1,867	83	51	163	—	580	4	Well, Mine—Sinkers, Borers	1,028	202	134	151	196	140	21	104
67,015	2,008	2,235	90	56	581	5	Contractors' Labourers; Navvies	35,286	5,422	4,614	118	154	110	494	91
1,405	75	35	214	—	588	4	Other Skilled Workers	864	121	130	93	140	100	8	66
4,262	73	104	70	57	589	4	Other Workers	2,562	282	410	69	110	79	44	156
177,842	**5,864**	**5,290**	**111**	—	—	—	**XVIII. Painters and Decorators (not Pottery)**	**111,116**	**14,314**	**14,339**	**100**	**129**	**92**	**1,079**	**75**
10,044	527	341	155	52	590	2	Employers and Managers	7,080	960	748	128	136	97	51	53
2,265	65	76	86	—	591	3	Foremen and Overlookers	1,696	86	173	50	51	36	4	47
134,259	4,368	4,041	108	57	592	3	Painters and Decorators (House, Ship or General)	83,151	10,707	10,666	100	129	92	819	76
13,547	388	363	107		593	3	Painters (Vehicles)	8,719	1,148	1,201	96	132	94	92	80
3,441	107	93	115	—	594	3	Signwriters	2,093	254	299	85	121	86	12	47
2,518	68	82	83	—	595	3	Paperhangers	1,574	99	181	55	63	45	10	101
179	6	4	150	—	598	3	Other Skilled Workers	116	10	17	59	86	61	—	—
11,589	335	290	116	57	599	5	Other Workers	6,687	1,050	1,054	100	157	112	91	87
26,838	**704**	**703**	**100**	—	—	—	**XIX. Workers in Other Materials**	**16,161**	**2,223**	**2,406**	**92**	**138**	**99**	**140**	**63**
15,054	321	354	91	—	—	—	1. Workers in Rubber, Vulcanite, Ebonite	9,416	1,422	1,475	96	151	108	91	64
1,050	32	30	107	—	600	2	Employers and Managers	758	77	91	85	102	73	1	13
768	14	18	78	58	601	3	Foremen and Overlookers	621	64	76	84	103	74	4	63
3,194	70	71	99		602	3	Mixers, Spreaders and Moulders	2,086	448	339	132	215	154	35	78
1,058	28	24	117		603	3	Vulcanizers	607	89	96	93	147	105	3	34
6,716	131	152	86		608	3	Other Skilled Workers	4,131	547	679	81	132	94	38	69
2,268	46	59	78		609	4	Other Workers	1,213	197	194	102	162	116	10	51
2,420	82	73	112	—	—	—	2. Workers in Bone, Horn, Ivory, Celluloid, etc.	1,404	156	193	81	111	79	11	71
223	6	7	86	—	610	2	Employers and Managers	150	14	19	74	93	66	—	—
100	1	3	33	—	611	3	Foremen and Overlookers	71	2	9	22	28	20	—	—
329	21	11	191	—	612	3	Turners	167	23	27	85	138	99	4	174
282	8	10	80	—	613	3	Scale Cutters and Pressers	146	11	19	58	75	54	—	—
1,201	36	35	103	—	618	3	Other Skilled Workers	710	74	97	76	104	74	5	68
285	10	7	143	—	619	4	Other Workers	160	32	22	145	200	143	2	63
9,364	301	276	109	—	—	—	3. Workers in Other Materials	5,341	645	638	87	121	86	38	59
1,010	37	35	106	—	630	2	Employers and Managers	673	56	69	81	83	59	2	36
400	11	13	85	—	631	3	Foremen and Overlookers	282	16	32	50	57	41	2	125
196	8	7	114	—	632	3	Feather Dressers and Dyers	113	27	15	180	239	171	1	37
3,378	132	105	126	58	633	3	Drafters and Brush Makers	1,765	232	231	100	131	94	16	69
2,842	83	76	109	—	638	3	Other Skilled Workers	1,603	207	253	82	129	92	16	77
1,538	30	40	75	—	639	4	Other Workers	905	107	138	78	118	84	1	9
80,087	**1,979**	**2,107**	**94**		—	—	**XX. Workers in Mixed or Undefined Materials (not elsewhere enumerated)**	**47,267**	**7,073**	**6,814**	**104**	**150**	**107**	**629**	**89**
10,014	250	278	90	—	—	—	1. Makers of Musical Instruments (not Piano, etc., Case Makers)	5,756	622	749	83	108	77	38	61
823	29	28	104	—	640	2	Employers and Managers	563	49	61	80	87	62	3	61
192	1	5	20	—	641	3	Foremen and Overlookers	166	8	20	40	48	34	—	—
518	8	13	62	—	642	3	Action—Makers, Fitters and Assemblers	317	26	44	59	82	59	2	77
3,705	87	104	84	—	643	3	Piano Tuners	2,022	198	253	78	98	70	13	66
4,421	121	120	101	—	648	3	Other Skilled Workers	2,521	312	349	89	124	89	20	64

17,053	254	445	57	—	—	—	2. Makers of Vehicles (see also under Metal Workers and Wood Workers) ..	10,985	1,227	1,595	77	112	80	101	82
1,829	19	59	32	—	650	2	Employers and Managers ..	1,268	53	147	36	42	30	3	57
807	20	27	74	—	651	3	Foremen and Overlookers ..	617	39	63	62	63	45	2	51
6,513	97	157	62	—	652	3	Repairers of Railway Wagons and Mine Trams and Tubs ..	4,118	583	662	88	142	101	47	81
5,318	67	135	50	—	658	3	Other Skilled Workers ..	3,426	340	493	69	99	71	30	88
2,586	51	67	76	—	659	5	Other Workers ..	1,556	212	230	92	136	97	19	90
34,623	1,024	937	109	—	—	—	3. Builders of Ships and Boats (see also under Metal Workers and Wood Workers).	20,465	3,933	2,973	132	192	137	383	97
1,179	29	40	73	—	660	2	Employers and Managers ..	790	65	85	76	82	59	5	77
1,038	41	37	111	—	661	3	Foremen and Overlookers ..	761	43	70	61	57	41	2	47
14,109	334	353	95	59	662	3	Shipwrights (Material not stated) ..	7,935	1,203	1,253	96	152	109	93	77
4,422	110	132	83	—	668	3	Other Skilled Workers ..	2,922	448	380	118	153	109	26	58
13,875	510	375	136	59	669	5	Other Workers ..	8,057	2,174	1,185	183	270	193	257	118
18,397	451	447	101	—	—	—	4. Other Workers ..	10,061	1,291	1,497	86	128	91	107	83
2,729	64	88	73	—	680	2	Employers and Managers ..	1,809	146	197	74	81	58	8	55
402	9	11	82	—	681	3	Foremen and Overlookers ..	308	21	39	54	68	49	—	—
804	21	19	111	—	682	3	Surgical or Dental Instrument Makers ..	432	78	66	118	181	129	6	77
903	10	21	48	—	683	3	Surgical Appliance and Artificial Limb Makers ..	543	79	88	90	145	104	7	89
4,662	88	75	117	—	684	3	Dental Mechanics ..	1,936	343	363	94	177	126	29	85
7,618	231	200	116	—	688	3	Other Skilled Workers ..	4,422	550	647	85	124	89	47	85
1,279	28	33	85	—	689	4	Other Workers ..	611	74	97	76	121	86	10	135
44,564	**1,323**	**1,366**	**97**	—	—	—	**XXI. Persons Employed in Gas, Water and Electricity Undertakings (not elsewhere enumerated).**	**30,140**	**3,980**	**3,695**	**108**	**132**	**94**	**339**	**85**
2,555	74	80	93	—	690	1	Managers ..	1,870	151	204	74	81	58	5	33
2,040	33	43	77	—	691	2	Charge and Shift Engineers ..	1,400	151	216	70	108	77	5	33
7,070	175	230	76	—	692	3	Inspectors and Foremen ..	4,964	368	539	68	74	53	27	73
11,475	430	337	128	60	693	4	Gas Stokers ..	8,437	1,485	1,026	145	176	126	131	88
6,599	106	205	52	—	698	4	Other Skilled Workers ..	4,369	238	541	44	54	39	20	84
14,825	505	471	107	—	699	5	Other Workers ..	9,100	1,587	1,169	136	174	124	151	95
1,140,048	**33,660**	**29,439**	**114**	—	—	—	**XXII. Persons employed in Transport and Communication** ..	**698,675**	**110,546**	**101,712**	**109**	**158**	**113**	**9,282**	**84**
275,258	5,746	6,962	83	—	—	—	1. Railway Workers ..	172,193	24,557	26,250	94	143	102	1,861	76
19,212	572	776	74	60	700	2	Railway—Officials, Station Masters, Yard Masters, Passenger and Goods Agents	12,320	704	1,058	67	57	41	42	60
83,713	1,526	1,933	79	61	701	3	Locomotive Engine—Drivers, Firemen, Cleaners (including Motormen) ..	49,209	7,818	7,981	98	159	114	561	72
24,669	563	726	78	61	702	3	Guards ..	17,121	1,969	2,232	88	115	82	154	78
27,998	516	816	63	62	703	3	Signalmen ..	19,043	2,056	2,585	80	108	77	135	66
24,681	458	504	91	62	704	3	Shunters, Pointsmen and Level Crossing Men ..	16,898	2,942	2,958	99	174	124	220	75
5,285	169	140	121	—	705	3	Ticket Collectors and Examiners ..	3,467	435	526	83	125	89	28	64
71,551	1,642	1,609	102	63	706	4	Porters and Lampmen ..	42,882	7,405	7,174	103	173	124	601	81
18,149	300	458	66	—	709	4	Other Railway Servants (not elsewhere enumerated) ..	11,253	1,228	1,736	71	109	78	120	98
459,415	12,383	11,302	110	—	—	—	2. Road Transport Workers ..	297,238	47,689	44,689	107	160	114	3,967	83
570	13	15	87	—	710	1	Omnibus and Tramway Proprietors and Managers ..	377	58	44	132	154	110	1	17
2,600	149	104	143	63	711	2	Livery Stable Proprietors and Managers ..	1,413	148	139	106	105	75	4	27
6,877	145	165	88		712	2	Motor Garage Proprietors and Managers ..	4,778	718	674	107	150	107	33	46
26,166	519	765	68		713	2	Haulage and Cartage Contractors and Managers; Master Carmen ..	16,664	1,631	2,112	77	98	70	104	64
4,602	144	138	104	—	714	2	Inspectors and Superintendents ..	3,698	260	376	69	70	50	20	77
1,146	24	42	57	—	715	3	Horse Foremen ..	736	44	60	73	60	43	2	45
3,061	62	95	65	—	716	3	Other Foremen ..	2,321	110	256	43	47	34	10	91
548	11	14	79	—	717	4	Checkers ..	342	66	57	116	193	138	1	15
							Drivers and Coachmen of:								
9,779	686	445	154	64	718	4	Coaches, Carriages and Horse Omnibuses ..	4,544	392	390	101	86	61	53	135
156,166	5,753	4,219	136		719	4	Lorries, Wagons, Vans and Carts (Horse) ..	97,205	18,543	13,761	135	191	136	1,868	101
133,227	2,131	2,483	86	64	720	3	Motor—Cars, Omnibuses, Vans and Lorries ..	90,085	14,281	15,287	93	159	114	977	68
14,850	277	310	89		721	3	Steam Wagons and Traction Engines (not Agricultural) ..	10,490	1,935	1,714	113	184	131	159	82
19,616	379	438	87	65	722	3	Trams ..	16,004	2,253	2,316	97	141	101	170	75
2,855	61	56	109	—	723	5	Van Boys and Van Guards ..	1,556	199	268	74	128	91	11	55
25,379	413	421	98	65	724	4	Omnibus and Tram Conductors ..	17,147	3,600	3,420	105	210	150	278	77
32,423	1,054	996	106	66	725	4	Grooms and Horsekeepers ..	17,713	2,227	2,279	98	126	90	161	72
19,550	562	596	94	—	729	4	Other Workers (not elsewhere enumerated) ..	12,165	1,224	1,536	80	101	72	115	94
247,623	10,745	6,815	158	—	—	—	3. Water Transport Workers ..	135,245	26,611	18,615	143	197	141	2,573	97
5,688	162	187	87	—	730	1	Ship—Owners, Managers, Brokers and Agents ..	3,505	337	402	84	96	69	10	30
2,226	73	86	85	—	731	2	Harbour, Dock, Canal—Officials; Piermasters ..	1,384	101	133	76	73	52	5	50
1,250	29	41	71	—	732	2	Wharfingers and Master Stevedores ..	804	60	90	67	75	54	4	67
16,217	654	‡	‡	—	733	2	Navigating Officers and Pilots ..	9,277	1,308	1,155	113	141	101	103	79
13,759	652	‡	‡	—	734	2	Engineering Officers ..	8,173	1,798	1,163	155	220	157	122	68
35,943	1,516	‡	‡	—	735	3	Petty Officers, Seamen and Deck Hands ..	14,607	3,379	2,391	141	231	165	328	97
24,621	1,242	‡	‡	—	736	4	Firemen, Trimmers, Greasers and Donkeymen ..	12,012	3,202	2,120	151	267	191	368	115
20,243	841	‡	‡	—	737	3	Pursers, Stewards and Domestic Staff ..	9,379	2,262	1,546	146	241	172	176	78
19,885	784	611	128	66	738	4	Bargemen and Boatmen ..	12,484	2,153	1,663	129	172	123	206	96

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* The calculated deaths are those which would have occurred if the mortality rate at each age group in the several occupations had been the same as that for all occupied and retired civilian males.

† The calculated births are those which would have occurred if the fertility rates at the various age groups in the several occupations had borne the same relations to each other as those stated for all married males in Table 12 of the Dependency, Orphanhood, and Fertility volume of the 1921 census. The rates used for calculation are based on those returned in that table, but are so increased as to yield the number of births registered in 1921.

‡ *See* Appendix B.

TABLE A.—MORTALITY OF MALES, AGED 20–65 (1921–1923); FERTILITY AND INFANT MORTALITY (1921), IN EACH OCCUPATION—*continued.*

Mortality of Males, aged 20–65 Years, in each Occupation (1921–1923).								Legitimate Fertility, 1921.						Infant Mortality (1921).	
Number of Males aged 20–65 Years. (Census 1921).	Registered Deaths of Males aged 20–65 Years.	Calculated* Deaths of Males aged 20–65 Years.	Ratio of Registered to 100 Calculated Deaths.	For further information, see page i.	Occupation Code Number.	Social Class.	Occupation.	Number of Married Males under 55 Years of Age. (Census 1921).	Registered Legitimate Births.	Calculated Legitimate Births.†	Ratio of Registered to 100 Calculated Births.	Crude Birth-rate per 1,000 Married Males under 55 Years of Age.	Crude Birth-rate compared with that of all Males taken as 100.	Deaths of Legitimate Infants under 1 Year of Age.	Infant Mortality per 1,000 Births.
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*		*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*
							XXII. Persons employed in Transport and Communication—*continued.*								
							3. Water Transport Workers—*continued.*								
988	23	36	64	—	739	1	Marine and Engineering Superintendents	594	71	57	125	120	86	3	42
3,757	103	128	80	—	740	3	Harbour, Dock and Stevedoring Foremen	2,622	186	271	69	71	51	10	54
2,218	60	75	80	—	741	4	Lock Keepers; Bridge, Stage and Pier Men	1,433	185	180	103	129	92	7	38
745	9	23	39	—	742	4	Lighthousemen and Crew of Lightships	447	28	58	48	63	45	—	—
4,743	231	140	165	67	743	4	Stevedores	3,034	566	383	148	187	134	52	92
6,843	273	223	122	67	744	5	Coal Boat Loaders and Dischargers	4,679	555	517	107	119	85	31	56
84,479	3,999	2,588	155	68	745	5	Other Dock Labourers	48,288	10,097	6,133	165	209	149	1,132	112
4,018	94	114	82	—	749	4	Other Workers (not elsewhere enumerated)	2,523	323	353	92	128	91	16	50
157,752	4,786	4,360	110	—	—	—	4. Other Workers in Transport and Communication	93,999	11,689	12,158	96	124	89	881	75
585	14	20	70	—	750	2	Employers and Managers	340	41	44	93	121	86	2	49
5,336	149	227	66	—	751	3	Foremen	3,474	112	225	50	32	23	4	36
389	13	8	163	—	752	1	Aviators	276	23	42	55	83	59	—	—
61,360	1,278	1,545	83	—	753	3	Postmen and Post Office Sorters	40,778	4,790	5,373	89	117	84	328	68
1,979	51	25	204	—	754	3	Wireless Operators	379	132	90	147	348	249	5	38
14,657	212	308	69	—	755	3	Other Telegraph Operators	8,970	677	1,319	51	75	54	34	50
2,837	55	57	96	—	756	3	Telephone Operators	1,668	271	289	94	162	116	16	59
4,375	179	129	139	68	757	5	Lift Attendants	2,319	334	339	99	144	103	30	90
13,563	469	433	108		758	5	Messengers	7,818	856	891	96	109	78	44	51
51,999	2,354	1,588	148	69	759	5	Porters (not elsewhere enumerated)	27,600	4,427	3,496	127	160	114	415	94
672	12	20	60	—	769	4	Other Workers (not elsewhere enumerated)	377	26	50	52	69	49	3	115
905,818	**26,494**	**26,207**	**101**	—	—	—	**XXIII. Commercial, Finance and Insurance Occupations** (**excluding Clerks**)	**550,300**	**57,938**	**69,384**	**84**	**105**	**75**	**3,642**	**63**
813,898	23,736	23,132	103	—	—	—	1. Commercial Occupations	491,325	53,303	63,037	85	108	77	3,418	64
398,400	13,243	13,000	102	69–71	770	2	Proprietors, Managing Directors, Managers of Wholesale or Retail Businesses	265,315	27,279	30,257	90	103	74	1,721	63
27,975	827	943	88	—	771	2	Brokers, Agents, Factors (not elsewhere enumerated)	16,387	1,223	1,784	69	75	54	73	60
11,868	222	322	69	—	772	2	Buyers	8,185	654	1,017	64	80	57	27	41
76,712	2,356	2,131	111	73	773	2	Commercial Travellers	47,988	5,056	6,075	83	105	75	274	54
3,830	94	118	80	74	774	3	Canvassers (not Dock, Insurance or Railway)	2,223	157	284	55	71	51	12	76
215,173	4,306	4,450	97	71–73	775	3	Salesmen and Shop Assistants	104,597	13,462	16,781	80	129	92	765	57
23,086	448	474	95	74	776	3	Roundsmen and Van Salesmen	14,622	1,985	2,426	82	136	97	129	65
36,390	1,754	1,096	160	74	777	5	Costermongers and Hawkers	20,191	2,549	2,873	89	126	90	351	138
3,413	212	95	223		778	5	Newspaper Sellers	1,364	216	220	98	158	113	30	139
4,710	89	130	68	—	779	2	Advertising Agents	3,176	258	408	63	81	58	6	23
12,341	185	373	50	—	789	2	Other Commercial Occupations	7,277	464	912	51	64	46	30	65
91,920	2,758	3,075	90	—	—	—	2. Persons Employed in Finance and Insurance	58,975	4,635	6,347	73	79	56	224	48
2,033	124	83	149	—	790	1	Company Directors (so returned)	1,117	161	105	153	144	103	8	50
9,587	237	359	66	75	791	1	Bankers, Bank Officials (Heads of Departments, Managers, Inspectors)	5,778	339	518	65	59	42	10	29
5,757	203	211	96	—	792	1	Stock Brokers and Stock Jobbers	3,264	256	309	83	78	56	7	27
18,008	327	542	60	75	793	1	Insurance Officials (Heads of Departments, Managers, Inspectors)	12,830	835	1,419	59	65	46	32	38
35,219	1,173	1,166	101	76	794	3	Insurance Agents and Brokers	23,152	1,987	2,561	78	86	61	119	60
2,309	40	74	54		795	3	Insurance Canvassers	1,481	49	171	29	33	24	—	—
13,468	469	462	102	76	796	1	Auctioneers, Appraisers, Valuers	7,838	686	865	79	88	63	37	54
3,977	125	129	97	—	797	2	Money Lenders and Pawnbrokers	2,622	218	292	75	83	59	11	50
1,562	60	49	122	—	799	2	Other Finance and Insurance Occupations	893	104	107	97	116	83	—	—
236,801	**4,650**	**5,830**	**80**	—	—	—	**XXIV. Persons Employed in Public Administration and Defence (excluding Professional Men and Typists).**	**205,114**	**33,296**	**34,377**	**97**	**162**	**116**	**2,067**	**62**
236,801	4,650	5,830	80	—	—	—	1. Public Administration	136,026	16,423	20,243	81	121	86	910	55
115,969	2,066	2,813	73	77	800	2	Civil Service Officials and Clerks	60,757	6,877	8,985	77	113	81	333	48
52,524	1,148	1,476	78	77	805	2	Local Authority Officials and Clerks	30,089	2,641	3,898	68	88	63	147	56
							Police :								

(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
							2. DEFENCE	69,088	16,873	14,134	119	244	174	1,157	[illegible]
‖	‖	‖	‖	—	810	1	Naval and Marine—Commissioned Officers (Effective)	3,028	404	365	111	133	95	17	42
					811	3	Navy and Marines—Other Ratings	31,159	7,958	6,641	120	255	182	465	58
					812	1	Army—Commissioned Officers (Effective)	5,633	1,142	811	141	203	145	45	39
					813	4	Army—Other Ranks	25,612	6,583	5,495	120	257	184	582	88
					814	1	Royal Air Force—Commissioned Officers (Effective)	991	208	196	106	210	150	7	34
					815	3	Royal Air Force—Other Ranks	2,665	578	626	92	217	155	41	71
276,164	**6,910**	**8,321**	**83**	—	—	—	**XXV. Professional Occupations (excluding Clerical Staff)**	**139,869**	**13,551**	**16,838**	**80**	**97**	**69**	**554**	**41**
18,946	467	772	60	78	820	1	Clergymen (Anglican Church)	8,510	666	756	88	78	56	18	27
2,757	75	91	82	78	821	1	Roman Catholic Priests; Monks	92	—	9	—	—	—	—	—
9,127	235	334	70	79	826	1	Ministers of Other Religious Bodies	5,788	438	562	78	76	54	24	55
3,366	76	114	67	—	827	2	Itinerant Preachers, Scripture Readers, Mission Workers, Sisters of Charity ..	1,825	166	205	81	91	65	5	30
3,234	127	152	84	—	828	2	Church, Chapel, Cemetery—Officials	1,689	97	137	71	57	41	3	31
242	4	9	44	—	829	1	Officials of Religious Societies	133	12	13	92	90	64	—	—
2,905	119	111	107	79	830	1	Barristers	1,250	166	127	131	133	95	3	18
13,981	513	542	95	80	831	1	Solicitors	6,903	615	685	90	89	64	15	24
22,445	828	815	102	80	840	1	Physicians, Surgeons, Registered Medical Practitioners	11,995	1,316	1,194	110	110	79	38	29
8,574	201	219	92	81	841	1	Dentists	5,692	543	787	69	95	68	32	59
1,929	75	72	104	—	842	2	Veterinary Surgeons, etc.	1,046	62	98	63	59	42	2	32
—	—	—	—	—	843	—	Midwives	—	—	—	—	—	—	—	—
2,072	54	51	106	—	844	3	Sick Nurses	1,144	227	155	146	198	141	12	53
9,202	192	211	91	—	845	3	Mental Attendants	5,265	737	755	98	140	100	47	64
5,113	154	153	101	—	849	3	Subordinate Medical Service (including Masseurs, Bone Setters and Herbalists) ..	2,998	229	370	62	76	54	17	74
67,343	1,447	2,025	71	81	850	2	Teachers (not Music Teachers)	38,608	3,341	4,884	68	87	62	141	42
4,425	160	163	98	82	851	2	Teachers of Music	2,195	144	205	70	66	47	4	28
							Consultant Engineers:								
16,963	389	518	75	82	860	1	Civil Engineering and Surveying	9,908	1,001	1,188	84	101	72	47	47
1,926	54	52	104	—	861	1	Mechanical and Electrical Engineering	1,306	290	165	176	222	159	6	21
1,493	103	51	202	—	862	1	Mining Engineering	742	221	85	260	298	213	12	54
8,787	247	264	94	83	863	1	Architects	4,713	427	563	76	91	65	17	40
1,132	29	36	81	—	864	1	Ship Designers, Ship Surveyors, Naval Architects	700	71	81	88	101	72	3	42
6,865	204	189	108	—	865	1	Chartered and Incorporated Accountants	4,203	575	522	110	137	98	18	31
8,635	128	167	77	—	866	2	Analytical and Research Chemists; Assayers, Metallurgists	4,099	474	694	68	116	83	15	32
1,721	24	35	69	—	867	3	Laboratory Attendants	853	88	134	66	103	74	3	34
25,390	165	293	56	—	868	1	Articled Clerks and Pupils and Other Professional Students.. ..	2,810	327	692	47	116	83	16	49
1,167	30	34	88	—	869	1	Other Persons Engaged in Scientific Pursuits	614	54	83	65	88	63	2	37
10,149	324	315	103	83	870	1	Authors, Editors, Journalists, Publicists	5,657	484	681	71	86	61	18	37
1,136	43	35	123	—	871	2	Librarians (not Booksellers)	622	54	74	73	87	62	2	37
1,098	36	38	95	—	872	2	Political Association Officials	689	48	70	69	70	50	2	42
3,223	88	107	82	—	873	2	Industrial and Trade Association Officials	2,379	167	237	70	70	50	8	48
1,150	38	39	97	—	874	2	Social Welfare Workers	741	61	77	79	82	59	4	66
7,027	236	234	101	84	875	2	Painters, Sculptors, Engravers (Artists)	3,234	319	374	85	99	71	18	56
2,641	45	80	56	—	879	2	Other Professional Occupations	1,466	131	176	74	89	64	2	15
57,568	**1,799**	**1,488**	**121**	—	—	—	**XXVI. Persons Employed in Entertainments and Sport**	**33,278**	**3,831**	**4,658**	**82**	**115**	**82**	**278**	**73**
5,588	168	156	108	84	880	2	Managers, Lessees of Theatres, Picture Theatres, Concert Halls, etc. ..	3,829	360	475	76	94	67	14	39
745	23	20	115		881	2	Theatrical, Film Hiring and Variety Agents	517	50	70	71	97	69	2	40
263	2	6	33		882	2	Film Producers, Film Studio Managers.. ..	190	19	27	70	100	71	2	105
2,388	61	62	98		883	3	Showmen; Fair and Roundabout Proprietors and Managers ..	1,536	312	227	137	203	145	22	71
1,145	36	35	103		884	2	Proprietors and Managers of Other Entertainments and Sports ..	779	70	91	77	90	64	9	129
7,794	247	184	134	85	885	3	Actors	4,385	367	629	58	84	60	36	98
14,544	477	391	122	85	886	3	Musicians	8,364	887	1,099	81	106	76	62	70
4,111	113	78	145	—	887	3	Stage Hands, Cinema and Limelight Operators	1,972	333	387	86	169	121	24	72
2,458	73	57	128	—	888	3	Race Horse Trainers; Jockeys and Training Stable Attendants ..	1,151	183	160	114	159	114	12	66
3,241	135	106	127	—	889	4	Money Takers, Check Takers, Janitors, Programme Sellers, Attendants ..	1,711	198	221	90	116	83	23	116
2,720	145	75	193	—	890	3	Bookmakers	1,798	166	224	74	92	66	10	60
12,571	319	318	100	—	899	3	Other Occupations	7,046	886	1,048	85	126	90	62	70
285,326	**10,867**	**8,956**	**121**	—	—	—	**XXVII. Persons engaged in Personal Service (including Institutions, Clubs, Hotels, etc.).**	**168,543**	**15,506**	**19,655**	**79**	**92**	**66**	**1,238**	**80**
44,360	1,067	1,205	89	86	900	3	Domestic Servants (Indoor)	19,756	1,976	2,630	75	100	71	150	76
8,137	180	277	65	86	910	3	Gamekeepers and Game Watchers	5,216	593	546	109	114	81	20	34
18,049	445	567	78	—	911	2	Restaurant Keepers	13,069	892	1,528	58	68	49	72	81
5,854	167	254	66	—	912	2	Lodging and Boarding House Keepers	3,078	119	283	42	39	28	12	101
768	9	26	35	—	913	2	Matrons and Stewards in Schools and Other Private Institutions ..	448	40	50	80	89	64	2	50
66,362	4,059	2,498	162	87	914	2	Inn, Hotel—Keepers; Publicans; Beersellers	44,592	2,960	4,091	72	66	47	230	78
15,600	666	340	196	87	915	4	Barmen	6,907	1,101	1,103	100	159	114	94	85
12,814	385	297	130	88	916	3	Waiters	6,760	924	1,033	89	137	98	80	87
9,193	328	279	118	68	917	4	Hall and Hotel Porters; Doorkeepers and Carriage Attendants ..	4,540	528	560	94	116	83	47	89
7,592	203	229	89	88	918	4	Laundry Workers; Washers, Ironers, Manglers	4,615	442	574	77	96	69	33	75

* The calculated deaths are those which would have occurred if the mortality rate at each age group in the several occupations had been the same as that for all occupied and retired civilian males.

† The calculated births are those which would have occurred if the fertility rates at the various age groups in the several occupations had borne the same relations to each other as those stated for all married males in Table 12 of the Dependency, Orphanhood, and Fertility volume of the 1921 census. The rates used for calculation are based on those returned in that table, but are so increased as to yield the number of births registered in 1921.

‖ *See* note § on page ciii, and Appendix A, Table *d*.

TABLE A.—MORTALITY OF MALES, AGED 20–65 (1921–1923); FERTILITY AND INFANT MORTALITY (1921), IN EACH OCCUPATION—*continued.*

MORTALITY OF MALES, AGED 20–65 YEARS, IN EACH OCCUPATION (1921–1923).								LEGITIMATE FERTILITY, 1921.						INFANT MORTALITY (1921).	
Number of Males aged 20–65 Years. (Census 1921).	Registered Deaths of Males aged 20–65 Years.	Calculated* Deaths of Males aged 20–65 Years.	Ratio of Registered to 100 Calculated Deaths.	For further information, *see* page i.	Occupation Code Number.	Social Class.	OCCUPATION.	Number of Married Males under 55 Years of Age. (Census 1921).	Registered Legitimate Births.	Calculated Legitimate Births.†	Ratio of Registered to 100 Calculated Births.	Crude Birth-rate per 1,000 Married Males under 55 Years of Age.	Crude Birth-rate compared with that of all Males taken as 100.	Deaths of Legitimate Infants under 1 Year of Age.	Infant Mortality per 1,000 Births.
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*		*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*
							XXVII.—Persons engaged in Personal Service (including Institutions, Clubs, Hotels, etc.)—*continued.*								
2,151	64	66	97	—	919	3	Managers, Attendants of Baths and Wash-houses	1,373	181	175	103	132	94	17	94
29,611	916	741	124	89	920	3	Hairdressers, Manicurists, Chiropodists	18,917	2,157	2,624	82	114	81	159	74
20,407	815	861	95	—	921	4	Caretakers and Office Keepers	12,605	691	1,088	64	55	39	59	85
2,500	49	88	56	—	922	4	Charwomen, Office Cleaners	1,332	92	156	59	69	49	10	109
12,247	434	307	141	—	923	4	Carpet Beaters, Vacuum Cleaners, Window Cleaners	7,841	1,108	1,118	99	141	101	118	106
4,414	186	168	111	89	924	3	Chimney Sweeps	2,586	295	264	112	114	81	27	92
2,192	105	75	140	—	925	3	Undertakers	1,393	101	145	70	73	52	7	69
23,075	789	678	116	—	929	4	Others in Personal Service	13,515	1,306	1,687	77	97	69	101	77
447,367	**9,960**	**10,041**	**99**	—	—	—	**XXVIII. Clerks and Draughtsmen (not Civil Service or Local Authority); Typists.**	**223,686**	**24,971**	**33,362**	**75**	**112**	**80**	**1,262**	**51**
12,700	161	394	41	—	930	1	Company Secretaries and Registrars	8,549	474	1,004	47	55	39	24	51
15,925	184	447	41	90, 91	931	2	Heads or Managers of Commercial Office Departments	11,774	313	1,459	21	27	19	14	45
21,929	343	388	88	91	932	2	Draughtsmen	9,847	1,285	1,734	74	130	93	50	39
14,061	66	267	25	90, 91	933	2	Costing and Estimating Clerks	7,931	367	1,330	28	46	33	25	68
382,752	9,206	8,545	108		939	2	Other Clerks	185,585	22,532	27,835	81	121	86	1,149	51
179,986	**4,757**	**4,920**	**97**	—	—	—	**XXIX. Warehousemen, Storekeepers and Packers**	**106,762**	**12,772**	**14,507**	**88**	**120**	**86**	**942**	**74**
83,181	2,306	2,293	101	92, 93	940	3	Warehousemen	48,893	5,828	6,495	90	119	85	437	75
33,500	908	957	95	93	941	3	Storekeepers	21,370	2,537	2,785	91	119	85	179	71
13,879	159	357	45	—	942	4	Warehouse and Storekeepers' Assistants (so returned—not Lace Warehouse Hands).	7,751	556	1,135	49	72	51	37	67
							Packers:								
4,805	147	133	111	—	943	4	Hookers, Lappers, Makers-up and Plaiters	2,687	263	372	71	98	70	17	65
1,815	43	52	83	—	944	4	China and Glass Packers	1,054	154	147	105	146	104	9	58
3,614	88	117	75	—	945	4	Furniture Packers	2,268	190	254	75	84	60	18	95
39,192	1,106	1,011	109	94	949	4	Other Packers, Wrappers, Labellers, Ticketters	22,739	3,244	3,319	98	143	102	245	76
139,911	**3,334**	**3,874**	**86**	—	—	—	**XXX. Stationary Engine Drivers, Dynamo and Motor Attendants**	**94,955**	**13,292**	**13,072**	**102**	**140**	**100**	**1,191**	**90**
73,940	1,970	2,113	93	94	950	3	Stationary Engine and Crane Drivers	48,999	6,819	6,638	103	139	99	544	80
51,048	976	1,412	69	—	951	4	Boiler Firemen and Stokers	35,869	4,629	4,890	95	129	92	478	103
4,058	136	97	140	—	952	4	Boiler Scalers	2,727	591	416	142	217	155	63	107
3,973	119	106	112	—	953	4	Gas Producer Men	2,880	510	392	130	177	126	48	94
6,892	133	146	91	—	954	4	Dynamo, Motor and Switchboard Attendants	4,480	743	736	101	166	119	58	78
736,666	**28,606**	**21,618**	**132**	—	—	—	**XXXI. Other and Undefined Workers**	**372,927**	**64,078**	**52,325**	**122**	**172**	**123**	**6,031**	**94**
1,550	40	53	75	—	960	2	Employers and Managers (not elsewhere enumerated)	1,001	111	106	105	111	79	5	45
9,142	294	311	95	—	961	3	Foremen and Overlookers (not elsewhere enumerated)	6,472	496	658	75	77	55	25	50
14,031	483	468	103	—	962	4	Timekeepers and Gatekeepers	8,520	853	1,026	83	100	71	68	80
17,905	1,001	809	124	—	963	5	Watchmen	8,528	754	880	86	88	63	73	97
1,337	38	38	100	—	964	5	Rag, Bone, Bottle, etc.—Sorters	655	82	90	91	125	89	8	98
755	75	27	278	—	965	5	Organ Grinders, Street Musicians, Street Artists	336	57	39	146	170	121	16	281
1,656	154	60	257	—	966	5	Drovers	627	60	62	97	96	69	6	100
6,110	233	193	121	—	967	3	Skilled Labourers (trade not determinable)	3,969	568	456	125	143	102	43	76
606,979	25,694	17,959	143	95	970–1	5	General and Undefined Labourers	309,540	59,630	43,455	137	193	138	5,673	95
30,259	—	696	—	—	979	5	Out of Work (not otherwise described)	9,907	21	1,571	1	2	1	—	—
26,576	8	374	2	—	987	4	Members of Defence Force (not otherwise described)	12,064	65	2,579	3	5	4	—	—
1,026	20	24	83	—	988	1	Officials (not Clerks) of Foreign Governments	491	53	72	74	108	77	1	19
19,340	566	606	93	—	989	4	All other Occupations	10,817	1,328	1,331	100	123	88	113	85

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* The calculated deaths are those which would have occurred if the mortality rate at each age group in the several occupations had been the same as that for all occupied and retired civilian males.

† The calculated births are those which would have occurred if the fertility rates at the various age groups in the several occupations had borne the same relations to each other as those stated for all married males in Table 12 of the Dependency, Orphanhood, and Fertility volume of the 1921 census. The rates used for calculation are based on those returned in that table, but are so increased as to yield the number of births registered in 1921.

TABLE B.—MORTALITY at various Ages of Males in certain Occupations as compared with that of all Occupied and Retired Civilians of similar Age taken as 100 in each case.

Occupation Group No.	OCCUPATION.	Ages 20—65 (C.M.F. ratio).	16—	20—	25—	35—	45—	55—	65—	70 and upwards.
—	All Males	101·3	117	105	105	103	101	99	96	82
—	Social Class I (Upper and Middle) Civilians only.	81·2	57	67	65	76	85	87	94	82
—	II (Intermediate)	94·2	83	87	94	92	94	96	99	98
—	III (Skilled Workers)	95·1	98	99	95	92	93	98	100	97
—	IV (Intermediate)	100·7	100	104	105	105	101	97	94	102
—	V (Unskilled Workers)	125·8	121	116	125	138	130	119	110	115
1	Farmers and their Relatives	67·4	36	56	75	70	66	67	75	85
2	Gardeners and Labourers	70·7	60	100	91	68	61	69	68	79
3	Farm Bailiffs and Foremen	52·6	87	34	38	54	49	61	80	132
4	Woodmen and Labourers in Woods and Forests	71·4	77	127	80	74	75	58	66	95
5	Agricultural Labourers (including Shepherds)	68·8	69	87	85	65	63	67	73	100
6	Coal Mine—Subordinate superintending staff	82·3	120	68	87	60	79	95	118	164
7	Coal Mine—Hewers and getters	93·8	86	84	91	88	84	105	130	109
8	Coal Mine—Persons conveying material to shaft	120·4	128	119	133	128	115	117	105	119
9	Coal Mine—Persons making and repairing roads	119·1	119	155	132	117	115	114	104	140
10	Coal Mine—Other workers below ground	122·6	177	150	132	114	126	118	112	127
8—10	Coal Mine—Underground workers, not hewers or superintendenting staff	120·3	134	130	132	119	120	116	108	131
11	Coal Mine—Workers above ground, not superintending staff	118·3	156	149	133	125	112	112	102	113
7—11	Coal Miners, not superintending staff	103·4	122	107	104	98	97	110	116	114
12	Iron-ore Mine—Underground workers, not superintending staff	95·4	87	111	115	90	97	89	116	130
13	Tin and Copper Miners, not superintending staff	326·8	38	78	304	423	346	311	171	213
13*a*	Tin and Copper Mine—underground workers	433·5	66	35	359	550	482	423	281	249
14	Stone Miners and Quarriers	94·6	100	108	90	101	84	99	108	123
15	Slate Miners and Quarriers	94·4	58	45	102	69	96	109	158	125
16	Cement Workers, Lime Burners, etc	71·7	66	57	75	84	83	59	84	98
17	Brick and Plain Tile Makers, Moulders, etc., Crucible Pot Makers	92·6	77	53	89	62	88	116	127	146
18	Potters' Mill Workers; Slip Makers; Potters	164·2	164	120	108	145	171	191	126	115
19	Pottery Dippers, Glazers, Painters, Decorators	141·3	68	118	54	123	179	152	142	138
20	Earthenware, China, etc., Kiln and Oven Men	183·0	29	98	80	199	212	197	188	101
21	Brick, Tile, etc., Kiln and Oven Men	87·8	132	65	43	97	76	108	146	170
22	Others making Bricks Tiles and Pottery	124·3	133	111	114	127	131	123	106	145
23	Skilled Glass House Workers	124·4	69	112	146	106	131	123	201	133
23*a*	Glass Blowers and Finishers (not machine hands)	131·4	69	103	130	136	138	129	223	114
24	Other Skilled Glass Workers	141·7	72	141	120	136	130	159	154	109
25	Chemical Workers	87·8	27	113	83	96	84	85	96	73
26	Makers of Paint, Oil, Soap, Grease, etc.	91·8	120	109	92	90	85	95	91	74
27	Workers in the Smelting, Rolling and Converting of Iron and Steel	102·5	90	68	106	105	100	107	99	115
27*a*	Puddlers	125·0	52	97	97	74	153	141	171	174
28	Metal Moulders	113·7	115	95	102	109	109	125	129	134
29	Iron Foundry Furnacemen and Labourers	111·6	141	117	106	122	117	104	97	106
30	Brass Foundry Furnacemen and Labourers	153·0	305	111	169	202	113	160	98	127
31	Smiths and Skilled Forge Workers	95·1	83	95	91	88	88	104	106	103
32	Machine Tool Workers and Metal Spinners	96·4	81	87	94	96	92	101	102	109
33	Fitters, Tool Setters, Millwrights, etc.	93·2	83	97	92	95	89	95	102	92
34	Boiler Makers and Platers, and their Labourers	96·8	88	97	95	87	97	102	105	100
35	Brass Finishers and Turners	129·3	89	136	107	167	142	109	113	137
36	Coppersmiths	108·7	51	153	139	103	102	101	118	112
37	Cutlers	128·4	63	106	101	169	139	114	127	100
38	File Cutters	185·1	—	103	187	241	190	168	204	132
39	Gas Fitters and Pipe Fitters	97·5	96	145	90	96	81	106	86	108
40	Metal Grinders	197·7	123	103	132	180	241	208	210	113
40*a*	Grinders in the cutlery trade	329·5	64	184	223	323	403	332	200	185
41	Metal Glazers, Polishers, Buffers, and Moppers	144·3	148	175	127	159	139	142	142	103
42	Plumbers	93·7	118	88	98	79	95	99	99	88
43	Rivetters and their Labourers	106·2	147	118	112	121	102	99	127	203
44	Tinsmiths and Sheet Metal Workers	101·1	61	103	87	97	105	104	100	105
45	Gold, Silver, and White Metal Smiths	96·1	184	96	91	106	93	95	93	79
46	Electrical Engineers Fitters and Wiremen	104·2	95	94	88	101	100	115	115	81
47	Makers of Watches, Clocks, Scientific and Electrical Instruments	80·4	102	93	109	74	67	83	71	79
48	Skilled Lime and Tanyard Workers, Curriers, and Leather Dressers	111·1	123	122	134	126	100	104	103	123
49	Skilled Leather Goods Makers	88·7	121	150	103	81	90	78	96	76
50	Wool Sorters	122·5	188	161	163	124	99	121	100	86
51	Cotton Blow Room Operatives, Skilled	151·6	193	176	113	170	158	147	145	164
52	Rag Grinders, Wool Willowers, etc.	119·8	58	198	84	125	103	129	138	143
53	Cotton Card and Frame (not spinning frame) Tenters	160·1	40	71	154	152	144	190	141	192
54	Wool and Worsted Card Comb or Frame Tenters	137·3	111	107	139	148	140	135	119	119
55	Cotton Strippers and Grinders, Card Room Jobbers	139·6	161	63	69	90	149	186	245	223
56	Cotton Spinners and Piecers	124·8	114	122	98	103	116	150	168	161
57	Wool and Worsted Spinners and Piecers	110·3	136	155	88	86	115	119	123	113
58	Cotton Doublers, Winders, Warpers, Beamers, etc.	123·6	119	128	107	115	125	131	159	165
59	Wool and Worsted Doublers, Winders, Warpers, Beamers, etc.	97·0	69	131	127	70	86	103	80	106
60	Cotton Weavers	104·8	102	97	88	79	93	131	142	117
61	Woollen and Worsted Weavers	108·2	82	122	91	117	91	120	143	172
62	Weavers of other Textiles	88·8	157	67	82	83	92	94	97	185

TABLE B.—MORTALITY at various Ages of Males in certain Occupations as compared with that of all Occupied and Retired Civilians of similar Age taken as 100 in each case—*continued.*

Occupation Group No.	OCCUPATION.	Ages 20—65 (C.M.F. ratio).	16—	20—	25—	35—	45—	55—	65—	70 and upwards.
63	Hosiery Frame Tenters and Machine Knitters	92·9	181	120	85	77	90	101	65	115
64	Dye Mixers and Dyers	130·4	146	113	147	124	119	139	134	128
65	Scourers (woollen, worsted, hosiery), Calenderers, Finishers	101·5	77	82	107	117	90	104	143	119
66	Cutters of Textile Goods and Clothing (not machine cutters)	116·8	143	162	134	95	121	113	93	125
67	Tailors; Tailors' Pressers and Machinists	101·5	90	94	114	112	101	95	91	71
68	Hat Formers, Plankers, Stiffeners	139·6	—	195	145	144	129	136	135	140
69	Boot and Shoe Makers and Repairers (not factory workers)	101·4	163	114	136	116	103	82	79	78
70	Boot and Shoe Clickers and Cutters	110·4	130	126	179	103	99	100	109	117
71	Other Skilled Boot and Shoe Operatives	112·0	141	146	132	110	102	109	133	119
72	Grain Millers	78·5	57	71	57	74	64	98	91	114
73	Bakers and Pastry Cooks	86·4	98	107	88	82	90	83	79	73
74	Brewers of Ale, Stout, and Porter	134·6	—	53	144	78	161	150	151	108
75	Cellarmen	151·0	149	145	144	185	135	150	108	109
76	Tobacco Factory Operatives	115·0	157	174	117	56	147	110	92	82
77	Foremen and Overlookers (Woodworking)	62·0	—	85	52	34	65	73	93	94
78	Cabinet Makers	102·6	100	107	89	95	107	106	99	92
79	Carpenters, Coachbuilders, Pattern Makers, etc.	84·3	99	95	83	77	84	86	86	89
80	French Polishers	123·0	198	89	116	141	123	122	106	101
81	Sawyers; Wood Turners and Machinists	86·8	115	88	78	91	94	82	103	120
82	Upholsterers, Coach Trimmers, and Bedding Makers	86·4	102	91	88	82	92	83	105	82
83	Paper Mill Workers	76·1	115	111	82	82	68	72	88	95
84	Hand Compositors	100·7	239	97	117	101	95	100	106	96
85	Machine Compositors	86·7	130	115	83	96	82	83	158	396
86	Photographers	88·2	114	81	103	116	83	76	102	91
87	Printing Machine Minders and Assistants; Machine Rulers	100·8	110	93	105	90	95	110	92	71
88	Bookbinders and Pattern Card Makers	109·8	170	178	112	90	112	107	93	87
89	Building and Contracting Employers and Managers	100·5	50	63	89	95	95	115	116	119
90	Foremen and Gangers (Building and Contracting)	73·2	—	51	65	61	81	79	88	108
91	Bricklayers	85·4	76	70	73	81	91	89	95	98
92	Plasterers	101·1	98	77	89	110	100	105	97	99
93	Slaters and Tilers	103·7	46	140	45	97	108	116	108	119
94	Masons, Stone Cutters and Dressers	139·0	100	94	93	140	161	143	127	114
95	Slate Masons and Slate Workers	159·6	226	71	173	141	172	167	182	209
96	Platelayers	92·0	107	93	91	84	92	96	109	130
97	Contractors' Labourers; Navvies	91·0	145	77	90	108	93	84	89	90
98	Painters and Decorators	107·4	99	98	93	108	113	109	109	102
99	Building Trades Labourers	106·0	89	89	86	109	113	108	109	130
100	Rubber Workers	89·2	103	98	95	76	90	91	54	71
101	Drafters and Brush Makers	132·0	146	256	134	134	168	88	119	98
102	Shipwrights	93·4	107	103	111	82	87	96	77	105
103	Shipyard Labourers, etc.	135·1	193	134	160	161	142	111	119	89
104	Gas Stokers	128·9	—	97	78	105	114	170	236	261
105	Railway Officials, Station Masters, etc.	67·9	113	—	67	61	68	81	97	87
106	Locomotive Engine Drivers, Firemen, Cleaners	79·2	74	82	78	72	75	85	98	98
107	Railway Guards	78·2	701	100	74	66	72	86	106	88
108	Railway Signalmen	62·2	245	39	51	54	56	77	92	99
109	Shunters, Pointsmen, and Level Crossing Men	91·4	98	98	81	99	88	92	72	104
110	Railway Porters and Lampmen	102·3	79	96	98	106	107	99	105	114
111	Livery Stable and Motor Garage Proprietors and Managers, etc.	79·1	43	91	74	80	74	82	79	101
112	Drivers of Horse-drawn Vehicles	137·8	101	128	131	143	141	137	140	142
113	Drivers of Motor Vehicles and Steam Wagons	86·2	103	97	89	84	79	90	96	127
114	Tram Drivers	87·5	214	146	97	83	82	83	79	159
115	Omnibus and Tram Conductors	99·0	168	76	101	99	116	89	105	159
116	Grooms and Horse Keepers	104·6	84	72	86	102	116	107	96	111
117	Bargemen and Boatmen	129·0	243	133	137	137	137	117	115	118
118	Stevedores	161·9	171	112	146	190	174	152	148	151
119	Coal Boat Loaders and Dischargers	123·1	270	127	123	141	116	119	143	124
120	Other Dock Labourers	153·2	135	128	135	178	162	145	124	137
121	Messengers, Hall Porters, Lift Attendants, etc.	120·0	110	253	151	113	112	101	103	72
122	Porters	149·7	176	161	160	172	152	134	120	106
123	Proprietors and Managers, Wholesale or Retail Dealing Businesses	102·9	198	123	104	99	101	103	103	96
123*a*	Proprietors and Managers, Fish, Meat, Greengrocery, Milk	117·5	197	131	122	114	112	120	107	102
123*b*	Proprietors and Managers, Grocery and Provisions	95·5	447	111	89	75	97	104	112	110
123*c*	Proprietors and Managers, Textiles and Clothing	94·1	225	91	88	92	89	101	101	105
124	Salesmen and Shop Assistants	97·3	101	93	92	103	100	95	81	86
124*a*	Salesmen and Shop Assistants, Fish, Meat, Greengrocery, Milk	128·0	115	108	111	127	128	136	114	129
124*b*	Salesmen and Shop Assistants, Grocery and Provisions	93·2	102	92	104	114	88	84	69	71
124*c*	Salesmen and Shop Assistants, Textiles and Clothing	106·9	117	106	100	114	113	101	73	106
125	Commercial Travellers	110·8	44	112	101	101	115	115	125	115
126	Canvassers, Roundsmen and Van Salesmen	87·7	108	109	110	96	84	77	75	79
127	Costermongers Hawkers and Street Sellers	166·0	181	139	172	202	180	142	120	104
128	Bank Officials	60·3	—	—	33	74	59	71	87	85

TABLE B.—MORTALITY at various Ages of Males in certain Occupations as compared with that of all Occupied and Retired Civilians of similar Age taken as 100 in each case—*continued.*

Occupation Group No.	OCCUPATION.	Ages 20—65 (C.M.F. ratio).	16—	20—	25—	35—	45—	55—	65—	70 and upwards.
129	Insurance Officials	58·5	—	14	52	50	64	66	73	77
130	Insurance Agents and Canvassers	103·9	175	170	149	112	98	82	89	91
131	Auctioneers, Appraisers, Valuers	103·1	75	159	93	88	110	100	108	91
132	Civil Service Officials and Clerks	73·9	94	61	76	64	76	78	76	78
133	Local Authority Officials and Clerks	77·6	79	69	78	66	80	83	85	76
134	Clergymen (Anglican Church)	56·1	—	—	50	62	56	63	83	74
135	Roman Catholic Priests, Monks	78·0	—	—	53	83	78	94	87	95
136	Ministers of other Religious Bodies	63·9	—	—	45	59	62	82	83	90
137	Barristers	117·1	—	278	116	120	107	101	86	86
138	Solicitors	89·9	—	69	49	89	102	96	92	71
139	Registered Medical Practitioners	102·1	—	141	89	90	106	103	90	81
140	Dentists	91·0	89	62	85	83	116	83	101	81
141	Teachers (not Music Teachers)	73·6	147	140	73	64	63	77	82	78
142	Music Teachers	109·6	—	249	144	117	91	90	87	89
143	Civil Engineers and Surveyors	75·2	58	92	55	79	82	73	99	77
144	Architects	92·9	104	132	56	84	83	110	120	97
145	Authors, Editors, Journalists	100·3	60	65	60	91	120	107	106	82
146	Artists	100·5	124	76	92	109	106	99	90	90
147	Proprietors and Managers of Theatres, Entertainments, Sports, &c.	102·0	43	68	102	114	118	90	108	109
148	Actors	133·6	—	68	133	151	129	138	189	103
149	Musicians	122·0	42	137	115	139	118	117	126	106
150	Domestic Servants (indoor)	88·5	84	94	89	93	96	80	82	76
151	Gamekeepers	66·7	116	53	101	76	49	67	93	122
152	Inn, Hotel—Keepers, Publicans	158·5	19	66	145	197	181	142	132	115
153	Barmen	195·5	116	150	165	251	209	176	122	76
154	Waiters	132·3	151	136	91	131	154	129	109	140
155	Laundry Workers	89·3	64	86	126	78	88	85	77	77
156	Hairdressers &c.	123·4	128	130	133	110	130	121	113	96
157	Chimney Sweeps	112·3	—	206	84	107	104	116	102	92
158	Clerks (not civil service or local authority)	101·9	92	96	108	103	104	99	103	86
158*a*	Bank and Insurance Clerks	93·7	56	59	82	76	109	99	118	82
158*b*	Railway Clerks	92·0	75	88	92	86	87	98	186	128
159	Draughtsmen	89·4	57	75	93	93	94	85	135	69
160	Warehousemen	100·7	143	113	94	106	98	101	114	100
160*a*	Warehousemen ; Textiles and Clothing	142·1	184	204	152	132	144	134	166	152
160*b*	Warehousemen ; Cereals, Provisions and Dry Goods	103·9	99	117	93	107	100	107	108	87
161	Storekeepers	95·2	104	108	99	105	96	87	92	84
162	Packers	109·7	109	113	95	123	108	109	87	92
163	Stationary Engine and Crane Drivers	93·7	129	111	99	82	88	100	111	120
164	General and Undefined Labourers	143·8	170	139	150	155	148	135	128	138

TABLE C.—Standardized Mortality (Comparative Mortality Figures), for All Causes and for certain selected Causes, of Males aged 20–65 years engaged in certain Occupations, 1921–23.

Note.—The numbers of deaths upon which these comparative mortality figures are based are in some cases very small, and reference should be made to the Abstracts (pp. 1–116), which show for each occupation the numbers of deaths from the several causes and the years of life at risk.

Occupation Group Number.	Occupation.	All Causes.	Influenza.	Tuberculosis (all forms).	Respiratory tuberculosis.	Syphilis, &c. (38, 72, 76 and 91A).	Cancer (all sites).	Diabetes.	Cerebral hæmorrhage, &c. (74 and 75A).	Diseases of the circulatory system.	Disease of the heart.	Valvular disease of heart.	Other heart disease.	Diseases of the respiratory system.	Bronchitis.	Pneumonia (100 and 101).	Diseases of the digestive system.	Peptic ulcer (111).	Appendicitis.	Cirrhosis of liver.	Chronic nephritis.	Suicide.	Accident.	Group Number.
—	**All Males**	**1,013**	**36·5**	**182·7**	**168·4**	**28·9**	**127·8**	**12·1**	**45·4**	**152·4**	**128·8**	**63·9**	**64·9**	**151·3**	**49·0**	**85·2**	**61·4**	**16·5**	**8·9**	**9·8**	**35·1**	**24·8**	**50·3**	—
—	**All Occupied and Retired Civilian Males**	**1,000**	**36·4**	**177·3**	**163·5**	**27·1**	**128·4**	**12·2**	**44·9**	**152·2**	**129·0**	**63·4**	**65·6**	**151·7**	**49·6**	**85·1**	**59·5**	**15·8**	**8·9**	**9·6**	**34·5**	**24·3**	**49·3**	—
—	**Social Class I (Upper and Middle)** **Civilians only**	**812**	**30·4**	**90·1**	**80·0**	**19·7**	**102·5**	**15·2**	**39·7**	**141·6**	**105·8**	**36·1**	**69·7**	**96·2**	**12·7**	**70·5**	**75·8**	**14·3**	**15·1**	**15·6**	**34·3**	**28·1**	**39·9**	—
—	**Social Class II (Intermediate)**	**942**	**34·1**	**151·6**	**138·0**	**24·7**	**118·1**	**17·7**	**46·2**	**154·0**	**128·8**	**57·2**	**71·6**	**115·1**	**27·2**	**71·6**	**72·9**	**15·3**	**12·7**	**17·9**	**38·9**	**31·0**	**34·5**	—
—	**Social Class III (Skilled Workers)**	**951**	**34·0**	**173·4**	**159·8**	**26·1**	**127·1**	**11·2**	**44·7**	**141·5**	**120·1**	**61·1**	**59·0**	**139·2**	**46·5**	**76·2**	**52·6**	**15·3**	**7·9**	**6·3**	**33·4**	**22·0**	**46·8**	—
—	**Social Class IV (Intermediate)**	**1,007**	**40·9**	**177·7**	**164·2**	**26·0**	**123·8**	**9·2**	**42·3**	**147·7**	**127·7**	**67·3**	**60·4**	**168·2**	**59·4**	**91·1**	**55·7**	**16·6**	**7·5**	**7·1**	**31·4**	**21·6**	**63·8**	—
—	**Social Class V (Unskilled Workers)**	**1,258**	**43·0**	**243·8**	**229·0**	**37·9**	**157·8**	**8·1**	**48·5**	**182·5**	**156·5**	**80·9**	**75·6**	**236·5**	**87·4**	**127·8**	**63·5**	**19·8**	**6·2**	**8·3**	**36·7**	**23·7**	**59·2**	—
1	Farmers and their relatives	674	26·7	81·9	67·7	7·1	93·0	16·0	32·2	101·3	88·2	44·7	43·5	73·7	11·4	50·4	58·6	13·9	14·5	7·5	24·9	30·0	37·0	1
2	Gardeners and their labourers	707	27·7	134·2	122·8	14·1	113·6	7·9	25·0	113·3	101·7	54·1	47·6	74·0	18·6	44·9	45·6	12·8	9·7	3·5	19·9	23·6	21·4	2
3	Farm bailiffs and foremen	526	23·9	43·0	40·4	10·4	89·7	3·5	20·6	78·1	71·7	36·4	35·3	62·2	11·6	47·8	33·6	11·3	4·2	2·5	16·7	29·1	37·1	3
4	Woodmen and labourers in woods and forests	714	22·0	134·9	120·8	17·7	95·7	12·0	21·1	101·9	93·6	36·8	56·8	49·3	9·8	27·2	46·7	18·1	9·8	3·3	9·3	24·0	78·6	4
5	Agricultural labourers (including shepherds)	688	31·7	111·4	96·1	10·5	89·7	7·3	26·2	101·9	91·6	46·8	44·8	89·9	24·3	54·0	39·8	10·4	5·9	2·8	20·7	24·3	45·4	5
6	Coal mine—subordinate superintending staff	823	33·9	77·6	70·5	13·4	103·1	6·8	44·9	118·0	96·2	44·8	51·4	107·1	33·0	50·7	53·1	11·1	12·7	8·2	24·8	16·0	131·2	6
7	Coal mine—hewers and getters	938	40·1	123·7	112·2	24·1	105·6	5·6	43·6	126·6	107·3	55·8	51·5	173·9	70·7	83·2	46·1	11·7	7·2	5·0	23·6	21·1	102·6	7
8	Coal mine—persons conveying material to the shaft	1,204	48·6	135·3	125·8	22·6	104·0	11·0	57·8	166·0	153·3	81·4	71·9	190·0	76·9	86·3	68·7	15·6	7·4	6·3	26·0	25·0	211·3	8
9	Coal mine—persons making and repairing roads	1,191	60·8	155·3	145·5	23·1	137·6	9·1	61·3	158·2	136·4	74·4	62·0	199·8	70·4	98·3	61·6	14·6	6·0	6·4	26·4	18·5	161·4	9
10	Coal mine—other workers below ground	1,226	64·1	166·1	151·0	23·8	125·2	10·5	49·7	172·5	145·3	78·4	66·9	220·7	82·6	114·4	63·3	14·0	7·7	7·7	30·5	20·6	152·7	10
8–10	Coal mine—underground workers, not hewers or suptdg. staff	1,203	58·2	151·4	138·5	23·4	126·1	10·4	55·1	167·7	144·2	78·0	66·2	205·8	77·4	101·8	65·1	14·6	7·5	7·3	29·4	21·5	168·2	8–10
11	Coal mine—workers above ground, not superintending staff	1,183	62·5	183·2	159·9	25·0	113·2	9·6	62·9	197·9	175·4	103·8	71·6	218·0	88·5	103·4	54·7	13·5	5·7	7·0	33·7	19·3	70·7	11
7–11	Coal miners, not superintending staff	1,034	47·5	136·4	123·4	23·6	111·9	7·8	49·1	146·6	126·1	67·9	58·2	186·8	73·8	90·8	51·1	12·6	6·8	5·6	26·2	20·8	116·6	7–11
12	Iron ore mine—underground workers, not superintending staff	954	75·9	158·2	133·2	3·8	108·9	8·7	43·7	110·6	75·9	49·2	26·7	141·6	33·8	61·8	51·6	9·8	11·9	3·0	15·0	21·2	98·2	12
13	Tin and copper miners—not superintending staff	3,268	43·2	1488·2	1446·5	—	179·4	43·2	134·0	236·2	206·4	59·3	147·1	659·6	192·8	45·6	60·5	15·3	15·3	—	75·5	74·9	83·0	13
13*a*	Tin and copper mine—underground workers, not suptdg. staff	4,335	17·0	2083·2	2061·3	—	242·0	40·7	171·0	361·4	312·3	99·5	212·8	960·1	248·2	71·5	70·9	23·8	21·9	—	118·6	94·2	91·4	13*a*
14	Stone miners and quarriers	946	37·3	164·1	155·2	22·0	82·7	8·9	39·0	142·5	117·0	74·7	42·3	155·2	46·1	85·0	48·2	13·5	7·9	—	14·7	19·8	110·5	14
15	Slate miners and quarriers	944	44·0	279·2	260·6	10·6	91·8	—	24·7	163·6	143·9	104·4	39·5	106·6	25·8	38·4	26·6	14·4	—	—	9·8	5·6	96·7	15
16	Cement workers, lime burners, &c.	717	21·5	115·4	115·4	9·8	114·1	20·2	11·8	58·8	53·5	32·8	20·7	140·0	26·9	108·2	48·1	26·0	—	5·4	22·6	20·5	77·5	16
17	Brick and plain tile makers, &c.; furnace, &c., pot makers	926	45·2	181·6	167·2	42·4	111·4	4·5	27·7	147·5	130·1	70·2	59·9	180·4	98·9	64·9	40·7	20·6	—	—	21·5	21·9	20·8	17
18	Potters' mill workers; slip makers; potters	1,642	43·7	465·5	449·6	12·5	109·5	10·6	50·4	199·0	161·8	95·0	66·8	433·2	269·6	105·7	82·0	25·2	9·7	21·5	59·6	41·4	25·2	18
19	Pottery dippers, glazers, painters, decorators	1,413	53·1	283·2	239·1	—	195·1	12·7	104·1	249·7	204·5	66·2	138·3	166·3	94·2	72·1	72·1	20·1	—	26·4	79·5	12·7	—	19
20	Earthenware, china, &c., kiln and oven men	1,830	56·8	384·2	366·8	13·1	200·8	6·6	61·8	197·9	187·0	47·8	139·2	445·3	242·8	141·2	66·0	26·8	15·2	10·9	69·9	28·0	30·6	20
21	Brick, tile, &c., kiln and oven men	878	33·5	123·6	115·4	21·2	102·2	6·3	31·5	146·5	130·8	77·8	53·0	160·9	66·8	64·3	19·9	6·8	6·3	—	42·2	30·3	39·1	21
22	Other persons engaged in the manuf. of bricks, tiles, and pottery	1,243	49·3	196·5	175·7	25·1	139·7	16·1	54·2	193·5	159·2	79·0	80·2	253·8	131·1	97·4	75·3	33·1	13·0	4·8	37·8	27·8	67·5	22
23	Skilled glasshouse workers	1,244	42·6	239·7	235·3	19·3	167·5	43·8	59·6	174·4	137·9	79·2	58·7	241·8	131·5	84·3	42·1	13·8	7·8	8·5	35·9	41·7	20·7	23
23*a*	Glass blowers and finishers, not machine hands	1,314	24·1	248·3	248·2	27·5	193·9	46·3	43·4	167·8	125·9	69·1	56·8	278·5	159·6	80·5	58·2	17·6	7·9	16·2	48·4	37·5	16·2	23*a*
24	Other skilled glass workers	1,417	65·4	309·7	295·1	31·4	179·4	31·4	81·0	158·3	116·4	58·8	57·6	299·7	123·9	146·6	23·9	6·6	5·5	5·2	56·3	37·0	29·3	24
25	Chemical workers	878	41·9	133·8	123·7	19·5	159·8	8·8	25·8	119·0	104·9	50·7	54·2	154·2	65·3	81·8	53·1	8·4	13·4	7·6	17·4	10·6	62·2	25
26	Makers of paint, oil, soap, grease, &c.	918	42·4	156·3	140·4	16·6	128·4	6·7	52·4	144·9	129·0	62·8	66·2	148·2	57·9	63·9	46·5	8·1	10·3	2·4	26·6	11·0	48·1	26
27	Persons engaged in smelting, rolling, converting of iron and steel	1,025	49·0	156·3	145·5	17·5	148·4	8·2	41·1	129·0	102·9	52·0	50·9	219·2	63·9	128·7	53·3	14·2	6·7	7·8	23·9	23·4	61·1	27
27*a*	Puddlers	1,250	29·8	173·7	146·5	12·6	205·0	5·3	62·2	117·6	91·1	50·2	40·9	319·1	133·2	173·4	55·1	17·4	—	—	23·1	29·2	30·0	27*a*
28	Metal moulders	1,137	51·4	186·4	174·9	19·1	159·0	11·1	55·9	149·5	127·2	60·2	67·0	252·6	85·5	145·4	59·3	13·5	10·4	11·6	37·1	22·0	28·2	28
29	Iron foundry furnacemen and labourers	1,116	65·1	170·7	165·5	19·1	134·4	10·9	36·7	158·3	124·5	67·2	57·3	298·3	90·3	193·2	36·7	12·1	5·0	2·9	48·2	19·6	35·1	29
30	Brass foundry furnacemen and labourers	1,530	80·5	375·5	347·1	37·2	136·2	10·2	92·3	207·4	162·2	62·5	99·7	320·1	98·7	212·1	80·7	26·5	18·5	17·8	36·4	25·4	38·1	30
31	Smiths and skilled forge workers	951	36·2	155·0	141·7	28·1	143·4	14·8	40·5	139·2	113·3	62·6	50·7	159·8	57·4	89·1	51·3	15·0	6·0	7·1	31·4	21·0	32·1	31
32	Machine tool workers and metal spinners	964	32·7	191·5	180·8	24·0	136·3	9·3	54·5	146·1	121·6	63·9	57·7	147·7	50·7	79·0	50·3	14·1	9·3	3·8	32·8	21·4	20·9	32
33	Fitters, tool setters, millwrights, and similar occupations	932	29·8	167·8	155·9	33·2	122·1	10·8	52·3	144·5	118·7	62·7	56·0	118·8	33·7	69·4	56·8	14·6	7·8	8·1	33·2	20·1	47·6	33
34	Boiler makers and platers, and their labourers	968	32·1	165·7	156·0	30·8	121·4	11·6	50·2	148·6	123·6	68·5	55·1	154·8	48·8	89·6	66·6	19·3	10·0	6·0	31·6	25·4	45·1	34
35	Brass finishers and turners	1,293	57·8	354·4	336·9	41·5	186·8	7·8	49·9	129·1	105·8	60·1	45·7	238·0	87·8	131·3	67·2	26·4	10·1	15·2	37·9	11·7	23·1	35
36	Coppersmiths	1,087	58·0	296·9	290·8	19·9	109·0	—	118·7	90·6	79·4	60·9	18·5	121·9	11·2	81·1	69·6	16·8	11·2	11·2	94·2	—	28·3	36
37	Cutlers	1,284	24·4	367·9	367·9	18·2	145·0	8·6	44·3	220·6	165·8	94·0	71·8	223·2	44·3	132·5	9·6	—	—	—	27·0	27·9	73·1	37
38	File cutters	1,851	75·4	426·8	399·3	—	151·7	26·2	120·0	207·5	169·3	117·4	51·9	306·9	163·6	88·8	62·7	19·1	24·5	19·1	215·0	24·5	19·1	38
39	Gas fitters and pipe fitters	975	41·8	167·2	155·3	19·0	164·9	8·3	61·2	92·9	75·5	31·6	43·9	155·2	43·4	97·5	56·2	25·4	9·7	8·1	28·7	29·1	46·9	39
40	Metal grinders	1,977	59·5	730·0	695·9	32·8	193·0	19·3	68·0	216·6	184·3	67·0	117·3	372·8	156·5	160·4	64·6	11·3	12·0	9·7	35·1	31·0	38·4	40
		(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*	*(16)*	*(17)*	*(18)*	*(19)*	*(20)*	*(21)*	*(22)*	

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	
40a	Grinders in the cutlery trade	3,295	106·7	1407·9	1288·0	45·5	248·8	17·3	98·4	347·5	295·4	109·5	185·9	699·5	361·2	207·6	61·1	14·3	—	15·6	46·2	29·4	42·8	40a
41	Metal glazers, polishers, buffers, and moppers	1,443	69·8	358·8	347·3	30·5	176·7	7·8	61·4	192·3	174·9	61·7	113·2	285·8	97·3	172·4	65·2	23·2	14·7	4·2	43·8	27·5	11·2	41
42	Plumbers	937	30·7	150·5	136·8	19·6	107·7	9·6	64·2	129·7	100·5	55·3	45·2	113·5	28·6	72·0	60·1	19·5	6·8	7·3	66·1	21·5	51·0	42
43	Rivetters and their labourers	1,062	36·6	204·0	192·1	46·0	120·0	7·8	57·2	148·6	123·2	60·8	62·4	201·1	79·2	115·1	47·4	12·1	8·4	4·0	26·6	10·2	58·2	43
44	Tinsmiths and sheet metal workers	1,011	42·2	217·0	203·9	24·9	136·3	14·7	43·4	146·2	130·2	56·2	74·0	166·3	41·1	113·4	42·2	17·5	7·1	1·1	36·3	19·2	23·5	44
45	Gold, silver, and white metal smiths	961	15·3	191·7	177·0	34·3	158·8	9·3	39·2	148·7	127·0	61·9	65·1	157·1	45·6	84·1	45·9	12·2	2·6	3·2	37·8	23·8	30·5	45
46	Electrical engineers fitters and wiremen	1,042	37·3	193·1	179·4	42·4	130·2	10·8	43·4	168·7	134·7	66·3	68·4	134·5	39·4	79·4	72·3	24·4	8·1	14·2	26·9	26·7	55·3	46
47	Makers of watches, clocks, scientific and electrical instruments	804	38·5	179·5	167·7	15·9	105·7	15·1	29·6	133·7	118·0	39·8	78·2	67·6	20·4	39·0	42·5	16·4	3·7	2·4	48·8	37·1	8·9	47
48	Skilled lime and tanyard workers, curriers, and leather dressers	1,111	37·9	261·4	246·4	20·1	155·2	10·2	31·8	152·9	127·6	68·7	58·9	171·5	48·1	113·3	79·5	28·0	12·3	17·9	29·4	37·5	34·0	48
49	Skilled leather goods makers	887	38·9	192·2	160·6	20·3	82·7	12·4	45·6	177·0	150·4	82·6	67·8	115·8	43·7	59·7	50·0	14·5	3·5	5·2	23·9	18·4	26·2	49
50	Wool sorters	1,225	43·0	191·3	174·2	55·3	93·9	42·4	32·4	210·1	164·9	71·4	93·5	190·7	50·8	139·8	64·4	49·1	15·3	—	43·0	78·1	27·9	50
51	Cotton blow room operatives—skilled	1,516	25·2	122·6	122·6	12·7	139·9	39·5	97·8	233·8	196·9	107·0	89·9	368·9	149·8	193·9	101·9	12·1	14·2	24·8	102·9	49·9	13·3	51
52	Rag grinders ; wool willowers, &c.	1,198	35·0	185·4	178·7	32·0	157·8	6·8	97·8	201·2	167·0	58·8	108·2	135·7	78·1	57·7	74·9	34·7	8·2	6·8	77·2	33·4	20·4	52
53	Cotton card and frame (not spinning frame) tenters	1,601	68·3	196·2	172·8	8·7	182·3	9·4	137·6	291·3	260·2	137·6	122·6	314·2	81·7	185·6	76·9	56·7	10·8	—	73·1	44·3	57·6	53
54	Wool, worsted card comb or frame (not spinning frame) tenters	1,373	30·8	292·4	260·1	18·8	117·4	3·6	63·6	196·4	148·3	83·9	64·4	244·9	108·0	118·7	96·4	27·2	9·9	4·2	62·6	32·2	60·6	54
55	Cotton strippers and grinders and card room jobbers	1,396	77·2	140·4	130·1	25·9	111·0	14·4	59·3	232·0	212·9	130·8	82·1	433·3	276·7	135·6	50·7	21·2	—	—	55·6	19·1	49·7	55
56	Cotton spinners and piecers	1,248	38·5	192·7	175·3	16·7	211·6	10·5	63·9	209·3	178·9	94·7	84·2	193·1	71·0	100·4	76·9	15·8	11·4	7·8	51·5	31·7	20·7	56
57	Wool and worsted spinners and piecers	1,103	23·8	164·8	146·8	—	164·1	17·2	63·4	165·5	158·6	75·6	83·0	119·6	25·5	86·0	74·1	12·5	23·2	25·5	99·9	18·6	36·7	57
58	Cotton—doublers, winders, warpers, beamers, &c.	1,236	48·5	187·9	142·0	13·4	160·4	7·1	59·0	217·0	194·6	92·9	101·7	238·4	97·2	123·7	60·8	14·2	—	10·6	40·1	36·1	21·2	58
59	Wool and worsted—doublers, winders, warpers, beamers, &c.	970	20·8	116·1	83·4	36·1	136·2	24·9	64·4	238·6	193·7	91·4	102·3	119·1	39·2	51·9	61·2	7·8	27·0	7·8	51·3	37·7	9·3	59
60	Cotton weavers	1,048	39·3	136·7	119·5	16·6	126·1	14·4	73·7	190·7	161·6	89·6	72·0	163·1	81·9	70·1	67·8	15·8	11·1	2·5	42·9	33·5	11·0	60
61	Woollen and worsted weavers	1,082	10·3	226·4	190·0	7·0	129·3	31·3	41·2	225·2	180·1	105·6	74·5	102·0	41·9	40·1	82·1	20·0	8·7	9·0	53·1	7·0	33·5	61
62	Weavers of other textiles	888	14·9	173·6	147·8	7·7	100·6	9·0	65·7	174·0	160·5	64·9	95·6	113·9	28·5	73·9	42·4	5·9	7·7	—	50·2	12·2	13·6	62
63	Hosiery frame tenters and machine knitters	929	26·5	161·1	121·2	22·5	119·1	12·1	48·8	142·4	85·8	40·5	45·3	113·1	34·4	51·9	67·8	4·8	—	25·2	47·1	55·0	25·0	63
64	Dye mixers and dyers	1,304	65·3	218·9	198·8	25·2	140·6	19·5	49·2	209·3	183·1	92·8	90·3	234·8	99·4	114·2	83·6	25·1	9·9	15·6	48·2	25·1	50·0	64
65	Scourers (woollen, worsted, hosiery); calenderers, finishers	1,015	33·8	178·3	163·2	8·2	136·2	17·3	51·1	178·7	154·3	83·4	70·9	160·8	68·1	87·1	53·9	8·0	10·0	3·7	50·2	11·9	19·0	65
66	Cutters of textile goods and clothing (not machine cutters)	1,168	7·8	338·9	307·0	33·9	131·7	10·8	63·8	159·5	149·3	81·8	67·5	181·6	50·8	107·3	60·2	25·1	—	4·0	50·9	17·1	17·3	66
67	Tailors ; tailors' pressers and machinists	1,015	27·2	251·6	232·3	32·4	115·4	12·3	46·9	172·0	146·8	64·4	82·4	134·8	54·1	65·1	58·3	18·6	8·3	4·6	36·2	29·6	15·8	67
68	Hat formers, plankers, stiffeners	1,396	34·4	317·7	283·6	21·9	207·9	14·6	68·8	252·3	238·7	86·7	152·0	213·8	56·4	112·0	83·0	21·1	—	24·1	52·8	7·3	27·8	68
69	Boot and shoe makers and repairers (not factory workers)	1,014	31·7	253·5	213·7	27·2	107·6	7·6	44·7	152·7	135·1	72·7	62·4	152·7	56·0	76·8	56·7	18·3	3·2	7·2	31·0	30·1	18·5	69
70	Boot and shoe clickers and cutters	1,104	29·4	305·8	297·5	23·9	135·4	9·5	65·6	195·2	167·8	79·5	88·3	120·5	50·4	58·5	50·3	14·5	7·7	10·4	39·4	9·5	16·9	70
71	Skilled boot and shoe operatives—not clickers or cutters	1,120	28·1	314·4	297·7	32·4	123·0	13·1	52·4	159·3	146·9	76·8	70·1	159·0	52·6	84·2	65·3	28·1	11·1	6·3	29·6	30·4	8·7	71
72	Grain millers	785	34·1	121·2	116·8	15·9	88·3	14·9	33·1	109·4	99·2	24·9	74·3	139·9	42·0	83·2	42·4	3·5	9·2	7·9	14·9	36·3	44·5	72
73	Bakers and pastry cooks	864	35·6	179·2	166·1	21·0	128·0	12·4	30·2	130·2	109·6	55·7	53·9	137·2	37·9	83·2	40·3	13·3	2·9	6·0	23·0	26·1	22·2	73
74	Brewers of ale, stout, and porter	1,346	23·2	115·4	115·4	130·3	179·5	12·4	100·8	193·9	145·2	78·0	67·2	140·2	64·4	37·9	186·4	41·6	41·6	76·8	55·9	64·4	78·0	74
75	Cellarmen	1,510	67·8	264·4	257·9	46·0	231·3	—	39·5	237·7	211·1	78·0	133·1	207·0	93·2	80·6	110·5	38·2	—	45·1	66·6	39·4	65·5	75
76	Tobacco factory operatives	1,150	23·4	333·9	327·4	26·8	158·9	27·6	23·7	217·0	161·6	93·7	67·9	116·7	36·2	71·9	87·6	29·9	6·5	9·6	16·2	23·4	8·6	76
77	Foremen and overlookers (wood working)	620	25·2	74·0	71·2	8·8	108·3	9·1	33·3	75·7	60·6	36·5	24·1	73·2	17·8	46·6	27·9	3·0	8·8	—	45·6	9·2	28·6	77
78	Cabinet makers	1,026	31·0	218·7	197·5	24·0	156·4	14·1	48·9	160·9	133·4	54·5	78·9	150·2	64·5	69·6	49·1	17·2	6·3	3·6	23·4	29·7	22·6	78
79	Carpenters, coachbuilders, pattern makers and similar occupations	843	30·5	156·8	141·4	22·5	123·8	10·0	40·4	129·0	106·4	55·4	51·0	108·7	32·8	62·6	47·4	13·1	8·5	4·9	32·9	18·6	31·9	79
80	French polishers	1,230	20·2	289·4	268·3	35·4	161·4	10·8	53·1	173·5	136·5	58·5	78·0	202·7	74·1	100·7	68·9	34·5	6·1	6·6	44·2	34·7	26·9	80
81	Sawyers, wood turners and machinists	868	33·2	166·2	159·9	23·0	141·1	9·3	30·9	133·1	115·7	58·6	57·1	117·4	39·3	59·1	49·3	12·3	10·4	8·8	20·3	25·2	40·3	81
82	Upholsterers, coach trimmers, and bedding makers	864	25·8	220·7	206·3	17·4	142·2	2·6	34·2	125·6	111·6	62·9	48·7	116·2	42·1	67·3	39·2	12·3	7·5	2·6	25·5	19·5	22·0	82
83	Paper mill workers	761	21·9	117·1	103·6	16·4	114·1	18·3	30·2	120·6	103·2	70·5	32·7	106·9	13·2	70·1	41·0	5·2	11·9	3·5	35·7	23·1	42·8	83
84	Hand compositors	1,007	39·3	228·3	210·8	25·5	123·3	16·7	49·2	159·3	136·4	53·7	82·7	129·1	52·7	66·0	59·5	13·0	12·4	7·5	43·4	10·1	18·0	84
85	Machine compositors	867	11·9	221·9	215·9	17·8	82·2	11·9	17·6	181·3	151·6	53·1	98·5	151·9	41·6	92·9	52·9	29·5	—	5·9	11·7	11·6	29·5	85
86	Photographers	882	34·5	179·4	158·6	24·8	87·9	19·9	41·3	164·2	143·1	49·6	93·5	91·3	20·4	55·9	49·4	4·9	—	19·4	31·5	25·4	25·5	86
87	Printing machine minders and assistants, machine rulers	1,008	32·5	223·5	203·9	28·8	123·7	11·8	45·8	165·0	136·4	67·3	69·1	140·3	53·5	75·5	49·9	20·2	8·0	4·2	32·1	19·0	24·8	87
88	Bookbinders and pattern card makers	1,098	36·3	202·7	197·6	41·5	193·3	13·7	26·3	164·2	137·9	88·1	49·8	154·6	50·8	79·8	75·3	33·2	—	5·2	22·6	32·0	8·7	88
89	Employers, managers in building, &c., trades ; clerks of works	1,005	29·3	116·1	107·9	18·3	139·4	14·8	64·9	183·0	142·8	65·9	76·9	120·1	35·4	65·4	70·1	18·4	9·8	12·3	49·7	27·4	61·5	89
90	Foremen and gangers (building and contracting)	732	27·7	40·1	36·1	17·7	96·5	13·4	36·2	123·4	105·7	66·0	39·7	109·4	26·3	67·5	47·3	16·2	2·4	8·1	32·4	16·1	103·0	90
91	Bricklayers	854	24·9	134·4	127·2	25·6	131·6	7·3	34·6	136·1	116·8	65·1	51·7	143·1	42·8	83·4	49·0	13·8	6·8	8·0	25·2	17·5	47·2	91
92	Plasterers	1,011	30·0	152·6	144·2	28·2	162·6	7·9	42·7	151·3	132·9	60·2	72·7	176·7	51·9	105·2	49·4	16·8	15·2	3·6	43·0	20·5	58·6	92
93	Slaters and tilers	1,037	19·9	184·0	164·0	21·1	184·1	12·7	40·4	158·9	146·5	109·5	37·0	165·9	34·3	113·0	42·9	12·6	—	5·6	23·5	18·7	72·1	93
94	Masons ; stone cutters and dressers	1,390	43·2	363·4	332·3	23·9	146·8	8·1	58·9	184·2	159·8	79·0	80·8	247·6	98·9	91·2	65·8	21·1	5·6	9·7	40·9	25·7	52·4	94
95	Slate masons and slate workers	1,596	71·5	592·3	560·1	16·2	139·3	—	25·9	325·6	299·7	126·4	173·3	114·9	13·0	69·7	34·0	—	17·8	16·2	69·7	—	13·0	95
96	Platelayers	920	43·1	114·4	101·6	23·0	133·3	12·1	34·7	142·8	124·7	70·3	54·4	138·9	42·3	82·4	44·5	12·8	7·6	6·7	18·3	21·3	109·9	96
97	Contractors' labourers ; navvies	910	40·1	149·3	137·2	17·8	123·5	7·3	34·8	130·8	113·9	64·0	49·9	159·8	49·8	93·0	41·6	12·8	4·4	4·3	26·0	16·1	70·3	97
98	Painters and decorators	1,074	35·5	180·1	168·7	29·9	137·3	10·8	70·3	159·9	132·7	71·7	61·0	151·6	53·0	81·2	50·2	17·1	6·6	5·3	65·7	22·4	50·1	98
99	Building trade labourers	1,060	38·4	183·0	174·4	25·8	149·1	5·3	41·6	157·5	136·0	67·7	68·3	198·4	74·2	105·5	60·1	22·0	6·7	5·7	28·1	19·4	66·4	99
100	Rubber workers	892	30·2	189·3	169·3	22·5	148·6	—	48·5	129·1	111·0	47·6	63·4	142·8	34·3	98·5	56·8	9·5	—	22·7	34·3	7·3	22·3	100
101	Drafters and brush makers	1,320	29·6	410·2	388·5	32·5	122·9	10·1	25·6	165·5	137·4	63·5	73·9	258·3	125·8	114·6	57·4	20·1	11·6	10·1	55·2	22·4	7·8	101
102	Shipwrights	934	14·7	184·7	167·0	47·9	137·3	7·2	46·5	155·1	134·2	79·7	54·5	143·3	45·0	74·5	35·8	8·9	10·1	—	23·6	12·3	57·7	102
103	Shipyard labourers, &c.	1,351	65·7	280·3	262·0	54·9	161·0	5·4	48·4	176·7	147·3	91·8	55·5	303·6	121·8	166·2	58·0	18·2	7·7	—	36·6	26·4	73·4	103
104	Gas stokers	1,289	63·6	193·1	177·1	25·2	205·2	10·2	38·8	182·2	145·8	78·3	67·5	249·4	105·1	135·0	69·9	14·5	12·6	9·3	43·8	11·3	63·0	104
105	Railway officials, station masters, &c.	679	36·4	82·6	78·3	5·8	103·3	15·5	39·1	120·9	93·1	46·9	46·2	69·9	19·7	44·4	53·3	8·0	12·3	3·9	23·7	13·3	24·9	105
106	Locomotive engine drivers, firemen, cleaners	792	31·0	107·4	101·3	23·1	115·9	16·3	44·5	114·9	97·0	51·5	45·5	101·5	27·8	65·0	50·7	16·2	8·4	3·0	24·0	12·1	52·9	106
107	Railway guards	782	40·3	85·2	76·5	18·7	109·0	11·1	39·7	110·5	96·0	40·1	55·9	108·3	23·7	70·6	53·6	13·5	10·8	4·0	28·2	15·9	72·8	107

TABLE C—STANDARDIZED MORTALITY (COMPARATIVE MORTALITY FIGURES), FOR ALL CAUSES AND FOR CERTAIN SELECTED CAUSES, OF MALES AGED 20–65 YEARS ENGAGED IN CERTAIN OCCUPATIONS, 1921–23—*continued.*

NOTE.—The numbers of deaths upon which these comparative mortality figures are based are in some cases very small, and reference should be made to the Abstracts (pp. 1–116), which show for each occupation the numbers of deaths from the several causes and the years of life at risk.

Occupation Group Number.	OCCUPATION.	All Causes.	Influenza.	Tuberculosis (all forms).	Respiratory tuberculosis.	Syphilis, &c. (38, 72, 76 and 91A)	Cancer (all sites).	Diabetes.	Cerebral hæmorrhage, &c. (74 and 75A).	Diseases of the circulatory system.	Disease of the heart.	Valvular disease of heart.	Other heart disease.	Diseases of the respiratory system.	Bronchitis.	Pneumonia (100 and 101).	Diseases of the digestive system.	Peptic ulcer (111).	Appendicitis.	Cirrhosis of liver.	Chronic nephritis.	Suicide.	Accident.	Group Number.
108	Railway signalmen	622	37·1	82·0	75·8	16·6	84·4	17·3	47·7	98·7	84·8	29·9	54·9	56·4	15·2	30·4	38·8	10·5	1·2	4·5	24·8	9·4	23·1	108
109	Shunters, pointsmen, and level crossing men	914	27·8	108·3	105·0	30·6	111·9	11·5	49·7	120·8	105·8	39·7	66·1	128·0	52·7	67·5	42·2	21·3	2·2	3·5	26·3	10·1	164·2	109
110	Railway porters and lampmen	1,023	45·8	197·6	188·1	34·0	138·8	14·8	45·5	129·8	112·6	52·5	60·1	157·6	66·5	71·9	51·9	24·0	6·0	4·7	36·8	14·7	52·5	110
111	Livery stable and motor garage proprietors; haulage contractors	791	25·5	102·4	98·5	20·1	99·7	8·7	29·6	131·7	108·1	46·9	61·2	118·0	45·2	59·8	64·4	17·1	14·5	13·2	29·5	34·7	52·0	111
112	Drivers of horse-drawn vehicles	1,378	46·3	232·1	215·3	41·8	183·9	12·3	59·1	202·1	172·6	85·9	86·7	262·8	101·4	135·9	73·7	24·5	7·8	11·0	45·2	22·7	72·2	112
113	Drivers of motor vehicles and steam wagons	862	28·2	139·1	128·1	31·5	128·6	10·7	27·3	136·9	120·3	60·9	59·4	131·7	41·7	71·4	56·6	14·1	8·8	6·2	23·6	23·3	42·3	113
114	Tram drivers	875	55·1	165·4	157·1	41·9	113·4	14·0	12·5	153·9	117·8	49·2	68·6	132·4	49·6	66·7	32·9	12·2	3·5	5·1	24·1	8·8	12·8	114
115	Omnibus and tram conductors	990	29·9	233·6	232·0	6·7	169·8	13·8	18·9	136·8	110·1	51·1	59·0	166·4	59·3	87·8	70·5	15·9	19·7	—	45·3	22·3	13·8	115
116	Grooms and horse keepers	1,046	30·7	170·1	158·9	38·8	138·9	3·5	44·6	158·0	139·5	81·7	57·8	184·3	53·7	110·8	56·4	13·9	7·8	9·5	36·2	32·4	51·0	116
117	Bargemen and boatmen	1,290	61·1	195·9	185·6	58·1	159·6	7·7	61·6	198·2	172·9	88·7	84·2	192·2	66·6	103·1	42·5	17·0	5·4	6·2	40·7	11·0	146·5	117
118	Stevedores	1,619	24·4	374·7	364·9	48·1	188·9	7·5	34·7	194·4	164·6	93·2	71·4	354·4	101·8	207·1	89·6	51·6	18·4	6·1	54·3	56·5	66·2	118
119	Coal boat loaders and dischargers	1,231	57·7	166·4	166·4	48·3	174·7	12·4	43·9	207·7	163·0	76·8	86·2	290·2	98·3	166·7	39·0	11·7	—	11·4	40·4	11·7	64·9	119
120	Other dock labourers	1,532	42·3	328·4	311·2	51·0	182·7	6·8	55·3	202·7	172·5	86·0	86·5	322·0	124·3	170·6	79·1	25·8	5·8	12·5	40·3	26·6	72·9	120
121	Messengers, hall porters, lift attendants, &c.	1,200	37·4	282·2	264·6	40·3	149·4	5·3	38·1	196·2	175·2	102·0	73·2	174·2	46·6	110·8	70·3	26·4	3·2	8·1	26·6	22·6	47·0	121
122	Porters	1,497	47·6	305·7	294·2	51·1	199·8	9·9	49·5	230·1	198·7	90·1	108·6	280·4	107·9	152·3	84·9	28·9	11·1	7·5	34·1	28·0	50·4	122
123	Proprietors and managers of wholesale or retail dealing businesses	1,029	38·6	151·7	134·3	28·9	117·5	18·1	49·0	178·8	148·9	62·8	86·1	139·6	33·8	87·1	76·6	13·7	14·9	19·6	44·4	39·4	35·3	123
123*a*	Proprs., &c., of businesses for sale of fish, meat, green-grocery, milk	1,175	43·2	163·4	149·9	32·9	137·4	22·3	57·4	214·3	186·1	78·6	107·5	171·9	47·9	103·9	82·2	12·6	12·2	23·2	55·5	39·4	35·7	123*a*
123*b*	Proprs., &c., of businesses for the sale of grocery and provisions	955	38·0	128·1	105·7	23·6	111·6	21·6	50·9	187·6	152·4	68·3	84·1	120·2	23·7	81·0	82·9	20·4	10·6	14·3	49·0	29·2	20·0	123*b*
123*c*	Proprs., &c., of businesses for the sale of textiles and clothing	941	34·4	152·5	132·1	24·9	106·9	9·8	44·9	160·0	126·2	51·3	74·9	119·8	26·2	74·0	71·3	9·9	11·2	18·7	40·6	35·0	28·6	123*c*
124	Salesmen and shop assistants	973	34·7	193·3	178·0	29·2	117·7	17·8	45·2	162·2	138·5	69·4	69·1	133·1	49·4	71·6	52·7	12·8	7·0	11·7	32·9	23·7	27·6	124
124*a*	Salesmen, &c., in businesses for sale of fish, meat, greengrocery, milk	1,280	42·5	198·8	184·1	39·5	156·6	24·8	67·4	231·1	197·4	92·1	105·3	206·4	87·0	104·9	66·0	15·2	8·7	15·1	51·7	28·9	33·3	124*a*
124*b*	Salesmen, &c., in businesses for the sale of grocery and provisions	932	28·8	229·0	211·1	20·3	93·2	23·2	50·1	143·9	121·6	64·7	56·9	117·4	36·2	72·4	50·8	19·5	4·6	13·0	28·4	25·8	24·8	124*b*
124*c*	Salesmen, &c., in businesses for the sale of textiles and clothing	1,069	30·2	236·7	211·0	24·1	162·3	15·8	40·4	170·9	146·1	72·3	73·8	134·6	54·6	62·8	48·6	13·7	8·1	8·4	28·2	25·3	38·5	124*c*
125	Commercial travellers	1,108	32·5	174·4	165·1	44·5	157·7	19·4	49·7	186·3	153·3	72·1	81·2	130·0	29·4	83·7	83·7	14·2	17·7	20·6	40·5	36·8	48·6	125
126	Canvassers, roundsmen, and van salesmen	877	35·9	169·4	162·4	28·9	120·3	1·9	30·8	143·6	133·8	68·2	65·6	135·2	44·7	72·9	33·0	12·7	1·1	7·6	30·2	23·9	41·7	126
127	Costermongers hawkers and street sellers	1,660	39·6	396·1	374·2	61·9	155·1	11·5	46·0	236·1	201·4	92·5	108·9	331·6	133·4	168·4	75·3	19·3	5·4	15·1	51·9	31·5	69·1	127
128	Bank officials	603	29·2	47·3	47·3	5·6	74·5	4·4	37·8	104·4	86·2	21·2	65·0	75·4	9·0	59·7	78·5	20·4	23·6	14·6	32·0	9·4	25·9	128
129	Insurance officials	585	32·9	58·4	58·4	12·3	79·2	19·8	33·3	96·3	63·8	14·6	49·2	66·3	10·9	46·0	55·2	8·4	14·9	5·0	24·8	12·2	23·4	129
130	Insurance agents and canvassers	1,039	47·8	286·3	256·5	22·4	107·5	12·1	41·0	146·5	127·3	69·2	58·1	123·6	44·2	57·8	59·0	17·9	12·1	4·9	33·9	33·0	28·4	130
131	Auctioneers, appraisers, valuers	1,031	35·9	133·0	121·4	37·3	137·2	26·8	43·2	175·3	131·7	53·2	78·5	102·0	15·3	78·4	79·8	13·8	21·3	22·1	39·5	41·6	59·9	131
132	Civil service officials and clerks	739	23·8	138·6	128·9	20·0	109·1	13·1	27·4	124·4	102·0	43·4	58·6	81·1	21·7	45·6	52·1	13·7	7·9	7·1	26·2	18·7	22·3	132
133	Local authority officials and clerks	776	32·7	141·1	125·2	18·3	98·8	14·2	44·5	116·3	93·0	41·5	51·5	84·2	20·0	50·6	61·7	21·9	11·6	8·5	36·6	22·5	25·2	133
134	Clergymen (Anglican Church)	561	18·8	54·9	52·5	3·1	67·7	9·5	28·4	109·2	77·4	24·8	52·6	63·2	6·8	47·3	54·7	16·2	13·3	5·0	26·2	24·5	27·5	134
135	Roman Catholic priests; monks	780	35·6	100·3	89·1	—	92·9	18·7	56·0	150·8	130·4	29·9	100·5	107·8	—	87·4	40·8	11·1	9·3	—	59·8	—	48·3	135
136	Ministers of other religious bodies	639	28·6	49·7	42·2	2·3	63·3	16·0	25·5	171·3	134·7	46·6	88·1	60·5	7·5	35·8	68·4	11·3	20·6	5·1	31·1	6·9	15·0	136
137	Barristers	1,171	6·2	40·4	40·4	21·8	156·7	—	31·7	276·2	229·9	65·0	164·9	105·0	6·2	83·0	285·3	172·6	52·8	6·2	56·2	30·8	37·2	137
138	Solicitors	899	22·4	92·5	86·0	25·9	125·3	11·5	46·7	152·3	105·7	38·4	67·3	121·4	11·5	91·6	84·0	10·0	16·7	26·2	36·6	40·2	20·3	138
139	Registered medical practitioners	1,021	46·5	81·6	75·6	24·7	101·8	19·0	44·7	142·5	105·1	27·8	77·3	154·0	14·9	123·9	94·7	15·8	14·0	17·8	47·3	48·9	81·8	139
140	Dentists	910	21·3	127·6	123·1	22·4	90·1	29·2	20·2	136·2	98·0	56·4	41·6	115·7	14·9	87·5	110·5	12·5	7·9	39·6	49·7	42·0	48·4	140
141	Teachers (not music teachers)	736	39·0	113·9	102·7	11·2	98·0	14·2	37·9	121·4	100·3	38·1	62·2	71·0	12·4	47·3	54·0	12·6	9·6	5·6	26·0	22·3	28·1	141
142	Music teachers	1,096	36·5	152·3	152·3	44·6	125·2	18·7	68·5	176·6	144·0	86·8	57·2	224·1	33·1	138·5	51·1	9·3	8·5	14·8	28·6	8·5	41·0	142
143	Civil engineers and surveyors	752	31·1	97·1	84·9	25·7	101·7	17·9	36·3	120·5	104·5	37·9	66·6	82·0	9·2	61·9	56·9	9·1	9·8	12·6	29·1	25·8	41·0	143
144	Architects	929	21·4	139·2	116·5	14·6	140·6	14·1	48·9	151·4	126·7	54·4	72·3	120·4	18·1	86·3	90·8	22·6	22·1	13·4	28·2	22·1	17·1	144
145	Authors, editors, journalists	1,003	31·2	142·9	119·1	36·2	130·9	8·8	57·8	203·2	144·7	71·6	73·1	109·2	31·9	68·6	87·9	20·6	9·7	29·2	40·7	27·0	26·6	145
146	Artists	1,005	57·1	178·4	168·2	53·7	149·0	9·0	23·1	147·1	118·5	48·1	70·4	155·3	55·7	63·9	40·6	8·9	14·9	3·3	41·5	23·5	15·6	146
147	Proprietors and managers of theatres, entertainments, sports	1,020	12·2	178·3	159·0	52·6	100·2	21·7	35·6	150·2	127·6	47·5	80·1	138·3	22·1	104·7	84·7	20·8	17·1	23·4	40·4	38·2	58·2	147
148	Actors	1,336	36·2	268·6	250·7	126·0	164·4	16·0	52·8	183·0	143·5	67·5	76·0	110·0	17·1	74·6	130·7	28·7	17·1	44·6	60·2	26·2	42·9	148
149	Musicians	1,220	17·3	236·2	226·4	55·8	193·2	16·2	35·2	203·3	176·3	83·3	93·0	188·2	59·5	108·4	75·9	16·2	17·9	13·4	37·2	14·4	44·6	149
150	Domestic servants (indoor)	885	23·7	154·9	145·2	31·9	134·5	13·3	31·8	125·4	103·9	46·4	57·5	104·2	24·9	70·9	68·0	16·9	13·4	4·3	41·6	31·5	28·2	150
151	Gamekeepers	667	23·5	149·7	126·2	10·1	120·6	15·3	21·7	56·1	52·0	15·8	36·2	42·7	16·2	13·4	49·0	17·0	9·6	3·0	16·7	35·6	47·1	151
152	Inn, hotel— keepers, publicans	1,585	56·3	237·1	219·8	30·0	163·7	34·8	79·4	232·7	203·4	84·5	118·9	204·5	42·4	137·1	205·4	28·9	20·1	110·9	78·1	63·4	53·8	152
153	Barmen	1,955	49·9	463·2	439·9	57·9	229·9	4·9	84·2	282·7	245·9	128·3	117·6	288·8	99·0	162·9	137·3	47·7	6·8	56·0	88·7	40·2	55·8	153
		(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*	*(16)*	*(17)*	*(18)*	*(19)*	*(20)*	*(21)*	*(22)*	

154	Waiters	1,323	30·8	284·9	264·7	70·4	257·2	22·0	34·4	142·6	117·1	66·7	50·4	194·1	48·1	126·9	76·5	12·6	8·0	22·6	32·3	8·9	30·7	154
155	Laundry workers	893	27·1	166·4	158·8	22·1	113·3	12·1	36·4	132·9	124·2	50·4	73·8	154·1	34·6	98·3	46·3	12·1	9·4	12·7	37·3	32·5	27·7	155
156	Hairdressers &c.	1,234	15·3	269·0	237·2	43·5	135·8	17·1	74·7	190·7	152·0	64·1	87·9	172·7	50·9	94·2	78·0	15·8	10·4	17·8	66·6	32·0	16·0	156
157	Chimney sweeps	1,123	18·7	272·4	262·7	9·5	198·2	—	27·4	210·0	187·9	94·4	93·5	167·9	68·0	91·2	51·4	9·8	5·4	14·4	36·9	26·8	42·6	157
158	Clerks (not civil service or local authority); typists	1,019	37·4	220·2	202·9	34·3	127·0	14·4	45·1	152·4	127·2	60·3	66·9	124·2	31·4	74·6	65·4	16·7	11·7	10·7	36·6	26·5	24·3	158
158*a*	Bank and insurance clerks	937	43·7	164·6	155·9	37·2	144·3	9·5	36·2	138·8	123·7	55·5	68·2	128·6	31·0	78·2	68·5	19·1	12·1	7·5	18·8	30·9	21·4	158*a*
158*b*	Railway clerks	920	33·3	195·7	180·7	22·5	99·5	13·5	54·7	138·7	105·8	51·7	54·1	124·0	28·8	76·8	70·4	16·8	14·3	7·4	29·2	16·9	15·4	158*b*
159	Draughtsmen	894	44·1	170·9	156·1	22·3	92·7	9·2	36·8	153·5	123·0	67·9	55·1	106·2	25·1	74·8	55·7	14·2	7·4	10·7	24·7	24·2	18·1	159
160	Warehousemen	1,007	40·7	203·0	189·0	22·2	128·4	11·7	45·1	160·5	140·3	77·1	63·2	157·9	49·9	93·4	64·5	22·5	8·9	7·3	34·3	19·4	19·7	160
160*a*	Warehousemen—textiles and clothing	1,421	54·1	361·4	334·8	30·1	192·3	28·4	61·5	156·1	142·2	74·2	68·0	189·8	57·7	114·9	109·8	41·1	22·0	6·8	43·9	20·6	22·6	160*a*
160*b*	Warehousemen—cereals, provisions, and dry goods	1,039	30·3	218·9	207·0	24·1	114·1	7·6	60·1	175·3	155·8	74·3	81·5	167·1	43·1	104·0	86·9	27·1	8·2	19·5	33·0	11·7	17·1	160*b*
161	Storekeepers	952	35·0	178·7	164·8	31·1	144·1	7·0	42·8	148·1	128·9	69·3	59·6	156·3	49·1	86·8	51·1	23·7	6·2	2·0	22·8	24·1	28·2	161
162	Packers	1,097	31·0	229·0	217·4	28·8	154·3	4·0	40·8	152·3	122·7	59·5	63·2	189·0	69·4	104·8	67·1	18·5	10·1	10·4	37·7	27·0	33·9	162
163	Stationary engine and crane drivers	937	44·3	145·2	129·9	19·0	136·4	14·3	50·1	145·7	131·6	80·0	51·6	117·7	41·3	66·3	53·5	15·9	10·0	4·4	32·4	19·3	65·9	163
164	General and undefined labourers	1,438	48·6	287·6	269·7	45·7	177·2	9·6	56·6	208·6	178·6	95·0	83·6	264·3	96·5	143·4	69·5	21·0	7·1	9·9	43·7	27·7	58·7	164

TABLE D.—Standardized Mortality (Comparative Mortality Figures) of Males aged 20–65 years in certain Occupations, from All Causes and from certain selected Causes, compared with that of All Occupied and Retired Civilian Males taken as 1000—1921–23.

Note.—The numbers of deaths upon which these calculations are based are in some cases very small, and reference should be made to the Abstracts, pp. 1–116, which show for each occupation the numbers of deaths from the several causes and the years of life at risk.

Occupation Group Number.	Occupation.	All Causes.	Influenza.	Tuberculosis (all forms).	Respiratory tuberculosis.	Syphilis, &c. (38, 72, 76 and 91A).	Cancer (all sites).	Diabetes.	Cerebral hæmorrhage, &c. (74 and 75A).	Diseases of the circulatory system.	Disease of the heart.	Valvular disease of heart.	Other heart disease.	Diseases of the respiratory system.	Bronchitis.	Pneumonia (100 and 101).	Diseases of the digestive system.	Peptic ulcer (111).	Appendicitis.	Cirrhosis of liver.	Chronic nephritis.	Suicide.	Accident.	Group Number.
—	**All Males**	**1,013**	**1,003**	**1,030**	**1,030**	**1,066**	**995**	**992**	**1,011**	**1,001**	**998**	**1,008**	**989**	**997**	**988**	**1,001**	**1,032**	**1.044**	**1,000**	**1,021**	**1,017**	**1,021**	**1,020**	—
—	**All Occupied and Retired Civilian Males**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	—
—	**Social Class I (Upper and Middle)**	**812**	**835**	**508**	**489**	**727**	**798**	**1,246**	**884**	**930**	**820**	**569**	**1,062**	**634**	**256**	**828**	**1,274**	**905**	**1,697**	**1,625**	**994**	**1,156**	**809**	—
—	**Social Class II (Intermediate)**	**942**	**937**	**855**	**844**	**911**	**920**	**1,451**	**1,029**	**1,012**	**998**	**902**	**1,091**	**759**	**548**	**841**	**1,225**	**968**	**1,427**	**1,865**	**1,128**	**1,276**	**700**	—
—	**Social Class III (Skilled Workers)** Civilians only	**951**	**934**	**978**	**977**	**963**	**990**	**918**	**996**	**930**	**931**	**964**	**899**	**918**	**937**	**895**	**884**	**968**	**888**	**656**	**968**	**905**	**949**	—
—	**Social Class IV (Intermediate)**	**1,007**	**1,124**	**1,002**	**1,004**	**959**	**964**	**754**	**942**	**970**	**990**	**1,062**	**921**	**1,109**	**1,198**	**1,071**	**936**	**1,051**	**843**	**740**	**910**	**889**	**1,294**	—
—	**Social Class V (Unskilled Workers)**	**1,258**	**1,181**	**1,375**	**1,401**	**1,399**	**1,229**	**664**	**1,080**	**1,199**	**1,213**	**1,276**	**1,152**	**1,559**	**1,762**	**1,502**	**1,067**	**1,253**	**697**	**865**	**1,064**	**975**	**1,201**	—
1	Farmers and their relatives	674	734	462	414	262	724	1,311	717	666	684	705	663	486	230	592	985	880	1,629	781	722	1,235	751	1
2	Gardeners and their labourers	707	761	757	751	520	885	648	557	744	788	853	726	488	375	528	766	810	1,090	365	577	971	434	2
3	Farm bailiffs and foremen	526	657	243	247	384	699	287	459	513	556	574	538	410	234	562	565	715	472	260	484	1,198	753	3
4	Woodmen and labourers in woods and forests	714	604	761	739	653	745	984	470	670	726	580	866	325	198	320	785	1,146	1,101	344	270	988	1,594	4
5	Agricultural labourers (including shepherds)	688	871	628	588	387	699	598	584	670	710	738	683	593	490	635	669	658	663	292	600	1,000	921	5
6	Coal mine—subordinate superintending staff	823	931	438	431	494	803	557	1,000	775	746	707	784	706	665	596	892	703	1,427	854	719	658	2,661	6
7	Coal mine—hewers and getters	938	1,102	698	686	889	822	459	971	832	832	880	785	1,146	1,425	978	775	741	809	521	684	868	2,081	7
8	Coal mine—persons conveying material to the shaft	1,204	1,335	763	769	834	810	902	1,287	1,091	1,188	1,284	1,096	1,252	1,550	1,014	1,155	987	831	656	754	1,029	4,286	8
9	Coal mine—persons making and repairing roads	1,191	1,670	876	890	852	1,072	746	1,365	1,039	1,057	1,174	945	1,317	1,419	1,155	1,035	924	674	667	765	761	3,274	9
10	Coal mine—other workers below ground	1,226	1,761	937	924	878	975	861	1,107	1,133	1,126	1,237	1,020	1,455	1,665	1,344	1,064	886	865	802	884	848	3,097	10
8-10	Coal mine—underground workers, not hewers or suptdg. staff	1,203	1,599	854	847	863	982	852	1,227	1,102	1,118	1,230	1,009	1,357	1,560	1,196	1,094	924	843	760	852	885	3,412	8-10
11	Coal mine—workers above ground, not superintending staff	1,183	1,717	1,033	978	923	882	787	1,401	1,300	1,360	1,637	1,091	1,437	1,784	1,215	919	854	640	729	977	794	1,434	11
7-11	Coal miners, not superintending staff	1,034	1,305	769	755	871	871	639	1,094	963	978	1,071	887	1,231	1,488	1,067	859	797	764	583	759	856	2,365	7-11
12	Iron ore mine—underground workers, not superintending staff	954	2,085	892	815	140	848	713	973	727	588	776	407	933	681	726	867	620	1,337	313	435	872	1,992	12
13	Tin and copper miners, not superintending staff	3,268	1,187	8,394	8,847	—	1,397	3,541	2,984	1,552	1,600	935	2,242	4,348	3,887	536	1,017	968	1,719	—	2,188	3,082	1,684	13
13*a*	Tin and copper mine—underground workers, not suptdg. staff	4,335	467	11,750	12,607	—	1,885	3,336	3,808	2,375	2,421	1,569	3,244	6,329	5,004	840	1,192	1,506	2,461	—	3,438	3,877	1,854	13*a*
14	Stone miners and quarriers	946	1,025	926	949	812	644	730	869	936	907	1,178	645	1,023	929	999	810	854	888	—	426	815	2,241	14
15	Slate miners and quarriers	944	1,209	1,575	1,594	391	715	—	550	1,075	1,116	1,647	602	703	520	451	447	911	—	—	284	230	1,961	15
16	Cement workers, lime burners, &c.	717	591	651	706	362	889	1,656	263	386	415	517	316	923	542	1,271	808	1,646	—	563	655	844	1,572	16
17	Brick and plain tile makers, &c.; furnace, &c., pot makers	926	1,242	1,024	1,023	1,565	868	369	617	969	1,009	1,107	913	1,189	1,994	763	684	1,304	—	—	623	901	422	17
18	Potters' mill workers; slip makers; potters	1,642	1,201	2,625	2,750	461	853	869	1,122	1,307	1,254	1,498	1,018	2,856	5,435	1,242	1,378	1,595	1,090	2,240	1,728	1,704	511	18
19	Pottery dippers, glazers, painters, decorators	1,413	1,459	1,597	1,462	—	1,519	1,041	2,318	1,641	1,585	1,044	2,108	1,096	1,899	847	1,212	1,272	—	2,750	2,304	523	—	19
20	Earthenware, china, &c., kiln and oven men	1,830	1,560	2,167	2,243	483	1,564	541	1,376	1,300	1,450	754	2,122	2,935	4,895	1,659	1,109	1,696	1,708	1,135	2,026	1,152	621	20
21	Brick, tile, etc., kiln and oven men	878	920	697	706	782	796	516	702	963	1,014	1,227	808	1,061	1,347	756	334	430	708	—	1,223	1,247	793	21
22	Other persons engaged in the manuf. of bricks, tiles, and pottery	1,243	1,354	1,108	1,075	926	1,088	1,320	1,207	1,271	1,234	1,246	1,223	1,673	2,643	1,145	1,266	2,095	1,461	500	1,096	1,144	1,369	22
23	Skilled glasshouse workers	1,244	1,170	1,352	1,439	712	1,305	3,590	1,327	1,146	1,069	1,249	895	1,594	2,651	991	708	873	876	885	1,041	1,716	420	23
23*a*	Glass blowers and finishers, not machine hands	1,314	662	1,400	1,518	1,015	1,510	3,795	967	1,102	976	1,090	866	1,836	3,218	946	978	1,114	888	1,688	1,403	1,543	329	23*a*
24	Other skilled glass workers	1,417	1,797	1,747	1,805	1,159	1,397	2,574	1,804	1,040	902	927	878	1,976	2,498	1,723	402	418	618	542	1,632	1,523	594	24
25	Chemical workers	878	1,151	755	757	720	1,245	721	575	782	813	800	826	1,016	1,317	961	892	532	1,506	792	504	436	1,262	25
26	Makers of paint, oil, soap, grease, &c.	918	1,165	882	859	613	1,000	549	1,167	952	1,000	991	1,009	977	1,167	751	782	513	1,157	250	771	453	976	26
27	Persons engaged in smelting, rolling, converting of iron and steel	1,025	1,346	882	890	646	1,156	672	915	848	798	820	776	1,445	1,288	1,512	896	899	753	813	693	963	1,239	27
27*a*	Puddlers	1,250	819	980	896	465	1,597	434	1,385	773	706	792	623	2,103	2,685	2,038	926	1,101	—	—	670	1,202	609	27*a*
28	Metal moulders	1,137	1,412	1,051	1,070	705	1,238	910	1,245	982	986	950	1,021	1,655	1,724	1,709	997	854	1,169	1,208	1,075	905	572	28
29	Iron foundry, furnacemen and labourers	1,116	1,788	963	1,012	705	1,047	893	817	1,040	965	1,060	873	1,966	1,821	2,270	617	766	562	302	1,397	807	712	29
30	Brass foundry furnacemen and labourers	1,530	2,212	2,118	2,123	1,373	1,061	836	2,056	1,363	1,257	986	1,520	2,110	1,990	2,492	1,356	1,677	2,079	1,854	1,055	1,045	773	30
31	Smiths and skilled forge workers	951	995	874	867	1,037	1,117	1,213	902	915	878	987	773	1,053	1,157	1,047	862	949	674	740	910	864	651	31
32	Machine tool workers and metal spinners	964	898	1,080	1,106	886	1,062	762	1,214	960	943	1,008	880	974	1,022	928	845	892	1,045	396	951	881	424	32
33	Fitters, tool setters, millwrights, and similar occupations	932	819	946	954	1,225	951	885	1,165	949	920	989	854	783	679	816	955	924	876	844	962	827	966	33
34	Boiler makers and platers, and their labourers	968	882	935	954	1,137	945	951	1,118	976	958	1,080	840	1,020	984	1,053	1,119	1,222	1,124	625	916	1,045	915	34
35	Brass finishers and turners	1,293	1,588	1,999	2,061	1,531	1,455	639	1,111	848	820	948	697	1,569	1,770	1,543	1,129	1,671	1,135	1,583	1,099	481	469	35
36	Coppersmiths	1,087	1,593	1,675	1,779	734	849	—	2,644	595	616	961	282	804	226	953	1,170	1,063	1,258	1,167	2,730	—	574	36
37	Cutlers	1,284	670	2,075	2,250	672	1,129	705	987	1,449	1,285	1,483	1,095	1,471	893	1,557	161	—	—	—	783	1,148	1,483	37
38	File cutters	1,851	2,071	2,407	2,442	—	1,181	2,148	2,673	1,363	1,312	1,852	791	2,023	3,298	1,043	1,054	1,209	2,753	1,990	6,232	1,008	387	38
39	Gas fitters and pipe fitters	975	1,148	943	950	701	1,284	680	1,363	610	585	498	669	1,023	875	1,146	945	1,608	1,090	844	832	1,198	951	39
40	Metal grinders	1,977	1,635	4,117	4,256	1,210	1,503	1,582	1,514	1,423	1,429	1,057	1,788	2,457	3,155	1,885	1,086	715	1,348	1,010	1,017	1,276	779	40

40a	Grinders in the cutlery trade																							
41	Metal glazers, polishers, buffers, and moppers	1,443	1,918	2,024	2,124	1,125	1,376	639	1,367	1,263	1,356	973	1,726	1,884	1,962	2,026	1,096	1,468	1,652	438	1,270	1,132	227	41
42	Plumbers	937	843	849	837	723	839	787	1,430	852	779	872	689	748	577	846	1,010	1,234	764	760	1,916	885	1,034	42
43	Rivetters and their labourers	1,062	1,005	1,151	1,175	1,697	935	639	1,274	976	955	959	951	1,326	1,597	1,353	797	766	944	417	771	420	1,181	43
44	Tinsmiths and sheet metal workers	1,011	1,159	1,224	1,247	919	1,062	1,205	967	961	1,009	886	1,128	1,096	829	1,333	709	1,108	798	115	1,052	790	477	44
45	Gold, silver, and white metal smiths	961	420	1,081	1,083	1,266	1,237	762	873	977	984	976	992	1,036	919	988	771	772	292	333	1,096	979	619	45
46	Electrical engineers fitters and wiremen	1,042	1,025	1,089	1,097	1,565	1,014	885	967	1,108	1,044	1,046	1,043	887	794	933	1,215	1,544	910	1,479	780	1,099	1,122	46
47	Makers of watches, clocks, scientific and electrical instruments	804	1,058	1,012	1,026	587	823	1,238	659	878	915	628	1,192	446	411	458	714	1,038	416	250	1,414	1,527	181	47
48	Skilled lime and tanyard workers, curriers, and leather dressers	1,111	1,041	1,474	1,507	742	1,209	836	708	1,005	989	1,084	898	1,131	970	1,331	1,336	1,772	1,382	1,865	852	1,543	690	48
49	Skilled leather goods makers	887	1,069	1,084	982	749	644	1,016	1,016	1,163	1,166	1,303	1,034	763	881	702	840	918	393	542	693	757	531	49
50	Wool sorters	1,225	1,181	1,079	1,065	2,041	731	3,475	722	1,380	1,278	1,126	1,425	1,257	1,024	1,643	1,082	3,108	1,719	—	1,246	3,214	566	50
51	Cotton blow room operatives—skilled	1,516	692	691	750	469	1,090	3,238	2,178	1,536	1,526	1,688	1,370	2,432	3,020	2,278	1,713	766	1,596	2,583	2,983	2,053	270	51
52	Rag grinders, wool willowers, &c.	1,198	962	1,046	1,093	1,181	1,229	557	2,178	1,322	1,295	927	1,649	895	1,575	678	1,259	2,196	921	708	2,238	1,374	414	52
53	Cotton card and frame (not spinning frame) tenters	1,601	1,876	1,107	1,057	321	1,420	770	3,065	1,914	2,017	2,170	1,869	2,071	1,647	2,181	1,292	3,589	1,213	—	2,119	1,823	1,168	53
54	Wool, worsted card comb or frame (not spinning frame) tenters	1,373	846	1,649	1,591	694	914	295	1,416	1,290	1,150	1,323	982	1,614	2,177	1,395	1,620	1,722	1,112	438	1,814	1,325	1,229	54
55	Cotton strippers and grinders and card room jobbers	1,396	2,121	792	796	956	864	1,180	1,321	1,524	1,650	2,063	1,252	2,856	5,579	1,593	852	1,342	—	—	1,612	786	1,008	55
56	Cotton spinners and piecers	1,248	1,058	1,087	1,072	616	1,648	861	1,423	1,375	1,387	1,494	1,284	1,273	1,431	1,180	1,292	1,000	1,281	813	1,493	1,305	420	56
57	Wool and worsted spinners and piecers	1,103	654	929	898	—	1,278	1,410	1,412	1,087	1,229	1,192	1,265	788	514	1,011	1,245	791	2,607	2,656	2,896	765	744	57
58	Cotton—doublers, winders, warpers, beamers, &c.	1,236	1,332	1,060	869	494	1,249	582	1,314	1,426	1,509	1,465	1,550	1,572	1,960	1,454	1,022	899	—	1,104	1,162	1,486	430	58
59	Wool and worsted—doublers, winders, warpers, beamers, &c.	970	571	655	510	1,332	1,061	2,041	1,434	1,568	1,502	1,442	1,559	785	790	610	1,029	494	3,034	813	1,487	1,551	189	59
60	Cotton weavers	1,048	1,080	771	731	613	982	1,180	1,641	1,253	1,253	1,413	1,098	1,075	1,651	824	1,139	1,000	1,247	260	1,243	1,379	223	60
61	Woollen and worsted weavers	1,082	283	1,277	1,162	258	1,007	2,566	918	1,480	1,396	1,666	1,136	672	845	471	1,380	1,266	978	938	1,539	288	680	61
62	Weavers of other textiles	888	409	979	904	284	783	738	1,463	1,143	1,244	1,024	1,457	751	575	868	713	373	865	—	1,455	502	276	62
63	Hosiery frame tenters and machine knitters	929	728	909	741	830	928	992	1,087	936	665	639	691	746	694	610	1,139	304	—	2,625	1,365	2,263	507	63
64	Dye mixers and dyers	1,304	1,794	1,235	1,216	930	1,095	1,598	1,096	1,375	1,419	1,464	1,377	1,548	2,004	1,342	1,405	1,589	1,112	1,625	1,397	1,033	1,014	64
65	Scourers (woollen, worsted and hosiery), calenderers and finishers	1,015	929	1,006	998	303	1,061	1,418	1,138	1,174	1,196	1,315	1,081	1,060	1,373	1,024	906	506	1,124	385	1,455	490	385	65
66	Cutters of textile goods and clothing (not machine cutters)	1,168	214	1,911	1,878	1,251	1,026	885	1,421	1,048	1,157	1,290	1,029	1,197	1,024	1,261	1,012	1,589	—	417	1,475	704	351	66
67	Tailors; tailors' pressers and machinists	1,015	747	1,419	1,421	1,196	899	1,008	1,045	1,130	1,138	1,016	1,256	889	1,091	765	980	1,177	933	479	1,049	1,218	320	67
68	Hat formers, plankers, stiffeners	1,396	945	1,792	1,735	808	1,619	1,197	1,532	1,658	1,850	1,368	2,317	1,409	1,137	1,316	1,395	1,335	—	2,510	1,530	300	564	68
69	Boot and shoe makers and repairers (not factory workers)	1,014	871	1,430	1,307	1,004	838	623	996	1,003	1,047	1,147	951	1,007	1,129	902	953	1,158	360	750	899	1,239	375	69
70	Boot and shoe clickers and cutters	1,104	808	1,725	1,820	882	1,055	779	1,461	1,283	1,301	1,254	1,346	794	1,016	687	845	918	865	1,083	1,142	391	343	70
71	Skilled boot and shoe operatives, not clickers or cutters	1,120	772	1,773	1,821	1,196	958	1,074	1,167	1,047	1,139	1,211	1,069	1,048	1,060	989	1,097	1,778	1,247	656	858	1,251	176	71
72	Grain millers	785	937	684	714	587	688	1,221	737	719	769	393	1,133	922	847	978	713	222	1,034	823	432	1,494	903	72
73	Bakers and pastry cooks	864	978	1,011	1,016	775	997	1,016	673	855	850	879	822	904	764	978	677	842	326	625	667	1,074	450	73
74	Brewers of ale, stout, and porter	1,346	637	651	706	4,808	1,398	1,016	2,245	1,274	1,126	1,230	1,024	924	1,298	445	3,133	2,633	4,674	8,000	1,620	2,650	1,582	74
75	Cellarmen	1,510	1,863	1,491	1,577	1,697	1,801	—	880	1,562	1,636	1,230	2,029	1,365	1,879	947	1,857	2,418	—	4,698	1,930	1,621	1,329	75
76	Tobacco factory operatives	1,150	643	1,883	2,002	989	1,238	2,262	528	1,426	1,253	1,478	1,035	769	730	845	1,472	1,892	730	1,000	470	963	174	76
77	Foremen and overlookers (wood working)	620	692	417	435	325	843	746	742	497	470	576	367	483	359	548	469	190	989	—	1,322	379	580	77
78	Cabinet makers	1,026	852	1,234	1,208	886	1,218	1,156	1,089	1,057	1,034	860	1,203	990	1,300	818	825	1,089	708	375	678	1,222	458	78
79	Carpenters, coach builders, pattern makers and similar occupations	843	838	884	865	830	964	820	900	848	825	874	777	717	661	736	797	829	955	510	954	765	647	79
80	French polishers	1,230	555	1,632	1,641	1,306	1,257	885	1,183	1,140	1,058	923	1,189	1,336	1,494	1,183	1,158	2,184	685	688	1,281	1,428	546	80
81	Sawyers; wood turners and machinists	868	912	937	978	849	1,099	762	688	875	897	924	870	774	792	694	829	778	1,169	917	588	1,037	817	81
82	Upholsterers, coach trimmers and bedding makers	864	709	1,245	1,262	642	1,107	213	762	825	865	992	742	766	849	791	659	778	843	271	739	802	446	82
83	Paper mill workers	761	602	660	634	605	889	1,500	673	792	800	1,112	498	705	266	824	689	329	1,337	365	1,035	951	868	83
84	Hand compositors	1,007	1,080	1,288	1,289	941	960	1,369	1,096	1,047	1,057	847	1,261	851	1,062	776	1,000	823	1,393	781	1,258	416	365	84
85	Machine compositors	867	327	1,252	1,320	657	640	975	392	1,191	1,175	838	1,502	1,001	839	1,092	889	1,867	—	615	339	477	598	85
86	Photographers	882	948	1,012	970	915	685	1,631	920	1,079	1,109	782	1,425	602	411	657	830	310	—	2,021	913	1,045	517	86
87	Printing machine minders and assistants; machine rulers	1,008	893	1,261	1,247	1,063	963	967	1,020	1,084	1,057	1,062	1,053	925	1,079	887	839	1,278	899	438	930	782	503	87
88	Bookbinders and pattern card makers	1,098	997	1,143	1,209	1,531	1,505	1,123	586	1,079	1,069	1,390	759	1,019	1,024	938	1,266	2,101	—	542	655	1,317	176	88
89	Employers, managers in building, &c, trades; clerks of works	1,005	805	655	660	675	1,086	1,213	1,445	1,202	1,107	1,039	1,172	792	714	769	1,178	1,165	1,101	1,281	1,441	1,128	1,247	89
90	Foremen and gangers (building and contracting)	732	761	226	221	653	752	1,098	806	811	819	1,041	605	721	530	793	795	1,025	270	844	939	663	2,089	90
91	Bricklayers	854	684	758	778	945	1,025	598	771	894	905	1,027	788	943	863	980	824	873	764	833	730	720	957	91
92	Plasterers	1,011	824	861	882	1,041	1,266	648	951	994	1,030	950	1,108	1,165	1,046	1,236	830	1,063	1,708	375	1,246	844	1,189	92
93	Slaters and tilers	1,037	547	1,038	1,003	779	1,434	1,041	900	1,044	1,136	1,727	564	1,094	692	1,328	721	797	—	583	681	770	1,462	93
94	Masons, stone cutters and dressers	1,390	1,187	2,050	2,032	882	1,143	664	1,312	1,210	1,239	1,246	1,232	1,632	1,994	1,072	1;106	1,335	629	1,010	1,186	1,058	1,063	94
95	Slate masons and slate workers	1,596	1,964	3,341	3,426	598	1,085	—	577	2,139	2,323	1,994	2,642	757	262	819	571	—	2,000	1,688	2,020	—	264	95
96	Platelayers	920	1,184	645	621	849	1,038	992	773	938	967	1,109	829	916	853	968	748	810	854	698	530	877	2,229	96
97	Contractors' labourers; navvies	910	1,102	842	839	657	962	598	775	859	883	1,009	761	1,053	1,004	1,093	699	810	494	448	754	663	1,426	97
98	Painters and decorators	1,074	975	1,016	1,032	1,103	1,069	885	1,566	1,051	1,029	1,131	930	999	1,069	954	844	1,082	742	552	1,904	922	1,016	98
99	Building trade labourers	1,060	1,055	1,032	1,067	952	1,161	434	927	1,035	1,054	1,068	1,041	1,308	1,496	1,240	1,010	1,392	753	594	814	798	1,347	99
100	Rubber workers	892	830	1,068	1,035	830	1,157	—	1,080	848	860	751	966	941	692	1,157	955	601	—	2,365	994	300	452	100
101	Drafters and brush makers	1,320	813	2,314	2,376	1,199	957	828	570	1,087	1,065	1,002	1,127	1,703	2,536	1,347	965	1,272	1,303	1,052	1,600	922	158	101
102	Shipwrights	934	404	1,042	1,021	1,768	1,069	590	1,036	1,019	1,040	1,257	831	945	907	875	602	563	1,135	—	684	506	1,170	102
103	Shipyard labourers, &c.	1,351	1,805	1,581	1,602	2,026	1,254	443	1,078	1,161	1,142	1,448	846	2,001	2,456	1,953	975	1,152	865	—	1,061	1,086	1,489	103
104	Gas stokers	1,289	1,747	1,089	1,083	930	1,598	836	864	1,197	1,130	1,235	1,029	1,644	2,119	1,586	1,175	918	1,416	969	1,270	465	1,278	104
105	Railway officials, station masters, &c.	679	1,000	466	479	214	805	1,270	871	794	722	740	704	461	397	522	896	506	1,382	406	687	547	505	105
106	Locomotive engine drivers, firemen, cleaners	792	852	606	620	852	903	1,336	991	755	752	812	694	669	560	764	852	1,025	944	313	696	498	1,073	106
107	Railway guards	782	1,107	481	468	690	849	910	884	726	744	632	852	714	478	830	901	854	1,213	417	817	654	1,477	107
108	Railway signalmen	622	1,019	462	464	613	657	1,418	1,062	648	657	472	837	372	306	357	652	665	135	469	719	387	469	108
109	Shunters, pointsmen, and level-crossing men	914	764	611	642	1,129	871	943	1,107	794	820	626	1,008	844	1,062	793	709	1,348	247	365	762	416	3,331	109

TABLE D—STANDARDIZED MORTALITY (COMPARATIVE MORTALITY FIGURES) OF MALES AGED 20–65 YEARS IN CERTAIN OCCUPATIONS, FROM ALL CAUSES AND FROM CERTAIN SELECTED CAUSES, COMPARED WITH THAT OF ALL OCCUPIED AND RETIRED CIVILIAN MALES TAKEN AS 1000—1921–23—*continued*.

NOTE.—The numbers of deaths upon which these calculations are based are in some cases very small, and reference should be made to the Abstracts, pp. 1–116, which show for each occupation the numbers of deaths from the several causes and the years of life at risk.

Occupation Group Number.	OCCUPATION.	All Causes.	Influenza.	Tuberculosis (all forms).	Respiratory tuberculosis.	Syphilis, &c. (38, 72, 76 and 91A).	Cancer (all sites).	Diabetes.	Cerebral hæmorrhage, &c. (74 and 75A).	Diseases of the circulatory system.	Disease of the heart.	Valvular disease of heart.	Other heart disease.	Diseases of the respiratory system.	Bronchitis.	Pneumonia (100 and 101).	Diseases of the digestive system.	Peptic ulcer (111).	Appendicitis.	Cirrhosis of liver.	Chronic nephritis.	Suicide.	Accident.	Group Number.
110	Railway porters and lampmen	1,023	1,258	1,114	1,150	1,255	1,081	1,213	1,013	853	873	828	916	1,039	1,341	845	872	1,519	674	490	1,067	605	1,065	110
111	Liverystable and motor garage proprietors, &c.; haulage contractors	791	701	578	602	742	776	713	659	865	838	740	933	778	911	703	1,082	1,082	1,629	1,375	855	1,428	1,055	111
112	Drivers of horse-drawn vehicles	1,378	1,272	1,309	1,317	1,542	1,432	1,008	1,316	1,328	1,338	1,355	1,322	1,732	2,044	1,597	1,239	1,551	876	1,146	1,310	934	1,465	112
113	Drivers of motor vehicles and steam wagons	862	775	785	783	1,162	1,002	877	608	899	933	961	905	868	841	839	951	892	989	646	684	959	858	113
114	Tram drivers	875	1,514	933	961	1,546	883	1,148	278	1,011	913	776	1,046	873	1,000	784	553	772	393	531	699	362	260	114
115	Omnibus and tram conductors	990	821	1,318	1,419	247	1,322	1,131	421	899	853	806	899	1,097	1,196	1,032	1,185	1,006	2,213	—	1,313	918	280	115
116	Grooms and horse keepers	1,046	843	959	972	1,432	1,082	287	993	1,038	1,081	1,289	881	1,215	1,083	1,302	948	880	876	990	1,049	1,333	1,034	116
117	Bargemen and boatmen	1,290	1,679	1,105	1,135	2,144	1,243	631	1,372	1,302	1,340	1,399	1,284	1,267	1,343	1,212	714	1,076	607	646	1,180	453	2,972	117
118	Stevedores	1,619	670	2,113	2,232	1,775	1,471	615	773	1,277	1,276	1,470	1,088	2,336	2,052	2,434	1,506	3,266	2,067	635	1,574	2,325	1,343	118
119	Coalboat loaders and dischargers	1,231	1,585	939	1,018	1,782	1,361	1,016	978	1,365	1,264	1,211	1,314	1,913	1,982	1,959	655	741	—	1,188	1,171	481	1,316	119
120	Other dock labourers	1,532	1,162	1,852	1,903	1,882	1,423	557	1,232	1,332	1,337	1,356	1,319	2,123	2,506	2,005	1,329	1,633	652	1,302	1,168	1,095	1,479	120
121	Messengers, hall porters, lift attendants, &c.	1,200	1,027	1,592	1,618	1,487	1,164	434	849	1,289	1,358	1,609	1,116	1,148	940	1,302	1,182	1,671	360	844	771	930	953	121
122	Porters	1,497	1,308	1,724	1,799	1,886	1,556	811	1,102	1,512	1,540	1,421	1,655	1,848	2,175	1,790	1,427	1,829	1,247	781	988	1,152	1,022	122
123	Proprietors and managers of wholesale or retail dealing businesses	1,029	1,060	856	821	1,066	915	1,484	1,091	1,175	1,154	991	1,312	920	681	1,024	1,287	867	1,674	2,042	1,287	1,621	716	123
123*a*	Proprs., &c., of businesses for sale of fish, meat, greengrocery, milk	1,175	1,187	922	917	1,214	1,070	1,828	1,278	1,408	1,443	1,240	1,639	1,133	966	1,221	1,382	797	1,371	2,417	1,609	1,621	724	123*a*
123*b*	Proprs., &c., of businesses for the sale of grocery and provisions	955	1,044	723	646	871	869	1,770	1,134	1,233	1,181	1,077	1,282	792	478	952	1,393	1,291	1,191	1,490	1,420	1,202	406	123*b*
123*c*	Proprs. &c., of businesses for the sale of textiles and clothing	941	945	860	808	919	883	803	1,000	1,051	978	809	1,142	790	528	870	1,198	627	1,258	1,948	1,177	1,440	580	123*c*
124	Salesmen and shop assistants	973	953	1,090	1,089	1,077	917	1,459	1,007	1,066	1,074	1,095	1,053	877	996	841	886	810	787	1,219	954	975	560	124
124*a*	Salesmen, &c., in businesses for sale of fish, meat, greengocery, milk	1,280	1,168	1,121	1,126	1,458	1,220	2,033	1,501	1,518	1,530	1,453	1,605	1,361	1,754	1,233	1,109	962	978	1,573	1,499	1,189	675	124*a*
124*b*	Salesmen, &c., in businesses for the sale of grocery and provisions	932	791	1,292	1,291	749	726	1,902	1,116	945	943	1,021	867	774	730	851	854	1,234	517	1,354	823	1,062	503	124*b*
124*c*	Salesmen, &c., in businesses for the sale of textiles and clothing	1,069	830	1,335	1,291	889	1,264	1,295	900	1,123	1,133	1,140	1,125	887	1,101	738	817	867	910	875	817	1,041	781	124*c*
125	Commercial travellers	1,108	893	984	1,010	1,642	1,228	1,590	1,107	1,224	1,188	1,137	1,238	857	593	984	1,407	899	1,989	2,146	1,174	1,514	986	125
126	Canvassers, roundsmen and van salesmen	877	986	955	993	1,066	937	156	686	943	1,037	1,076	1,000	891	901	857	555	804	124	792	875	984	846	126
127	Costermongers hawkers and street sellers	1,660	1,088	2,234	2,289	2,284	1,208	943	1,024	1,551	1,561	1,459	1,660	2,186	2,690	1,979	1,266	1,222	607	1,573	1,504	1,296	1,402	127
128	Bank officials	603	802	267	289	207	580	361	842	686	668	334	991	497	181	702	1,319	1,291	2,652	1,521	928	387	525	128
129	Insurance officials	585	904	329	357	454	617	1,623	742	633	495	230	750	437	220	541	928	532	1,674	521	719	502	475	129
130	Insurance agents and canvassers	1,039	1,313	1,615	1,569	827	837	992	913	963	987	1,091	886	815	891	679	992	1,133	1,360	510	983	1,358	576	130
131	Auctioneers, appraisers, valuers	1,031	986	750	743	1,376	1,069	2,197	962	1,152	1,021	839	1,197	672	308	921	1,341	873	2,393	2,302	1,145	1,712	1,215	131
132	Civil Service officials and clerks	739	654	782	788	738	850	1,074	610	817	791	685	893	535	437	536	876	867	888	740	759	770	452	132
133	Local authority officials and clerks	776	898	796	766	675	769	1,164	991	764	721	655	785	555	403	595	1,037	1,386	1,303	885	1,061	926	511	133
134	Clergymen (Anglican Church)	561	516	310	321	114	527	779	633	717	600	391	802	417	137	556	919	1,025	1,494	521	759	1,008	558	134
135	Roman Catholic priests; monks	780	978	566	545	—	724	1,533	1,247	991	1,011	472	1,532	711	—	1,027	686	703	1,045	—	1,733	—	980	135
136	Ministers of other religious bodies	639	786	280	258	85	493	1,311	568	1,125	1,044	735	1,343	399	151	421	1,150	715	2,315	531	901	284	304	136
137	Barristers	1,171	170	228	247	804	1,220	—	706	1,815	1,782	1,025	2,514	692	125	975	4,795	10,924	5,933	646	1,629	1,267	755	137
138	Solicitors	899	615	522	526	956	976	943	1,040	1,001	819	606	1,026	800	232	1,076	1,412	633	1,876	2,729	1,061	1,654	412	138
139	Registered medical practitioners	1,021	1,277	460	462	911	793	1,557	996	936	815	438	1,178	1,015	300	1,456	1,592	1,000	1,573	1,854	1,371	2,012	1,659	139
140	Dentists	910	585	720	753	827	702	2,393	450	895	760	890	634	763	300	1,028	1,857	791	888	4,125	1,441	1,728	982	140
141	Teachers (not music teachers)	736	1,071	642	628	413	763	1,164	844	798	778	601	948	468	250	556	908	797	1,079	583	754	918	570	141
142	Music teachers	1,096	1,003	859	931	1,646	975	1,533	1,526	1,160	1,116	1,369	872	1,477	667	1,627	859	589	955	1,542	829	350	832	142
143	Civil engineers and surveyors	752	854	548	519	948	792	1,467	808	792	810	598	1,015	541	185	727	956	576	1,101	1,313	843	1,062	832	143
144	Architects	929	588	785	713	539	1,095	1,156	1,089	995	982	858	1,102	794	365	1,014	1,526	1,430	2,483	1,396	817	909	347	144
145	Authors, editors, journalists	1,003	857	806	728	1,336	1,019	721	1,287	1,335	1,122	1,129	1,114	720	643	806	1,477	1,304	1,090	3,042	1,180	1,111	540	145
146	Artists	1,005	1,569	1,006	1,029	1,982	1,160	738	514	966	919	759	1,073	1,024	1,123	751	682	563	1,674	344	1,203	967	316	146
147	Proprietors and managers of theatres, entertainments, sports	1,020	335	1,006	972	1,941	780	1,779	793	987	989	749	1,221	912	446	1,230	1,424	1,316	1,921	2,438	1,171	1,572	1,181	147
148	Actors	1,336	995	1,515	1,533	4,649	1,280	1,311	1,176	1,202	1,112	1,065	1,159	725	345	877	2,197	1,816	1,921	4,646	1,745	1,078	870	148
149	Musicians	1,220	475	1,332	1,385	2,059	1,505	1,328	784	1,336	1,367	1,314	1,418	1,241	1,200	1,274	1,276	1,025	2,011	1,396	1,078	593	905	149
150	Domestic servants (indoor)	885	651	874	888	1,177	1,048	1,090	708	824	805	732	877	687	502	833	1,143	1,070	1,506	448	1,206	1,296	572	150
151	Gamekeepers	667	646	844	772	373	939	1,254	483	369	403	249	552	281	327	157	824	1,076	1,079	313	484	1,465	955	151
152	Inn, hotel—keepers, publicans	1,585	1,547	1,337	1,344	1,107	1,275	2,852	1,768	1,529	1,577	1,333	1,812	1,348	855	1,611	3,452	1,829	2,258	11,552	2,264	2,609	1,091	152
153	Barmen	1,955	1,371	2,613	2,691	2,137	1,790	402	1,875	1,857	1,906	2,024	1,793	1,904	1,996	1,914	2,308	3,019	764	5,833	2,571	1,654	1,132	153
154	Waiters	1,323	846	1,607	1,619	2,598	2,003	1,803	766	937	908	1,052	768	1,279	970	1,491	1,286	797	899	2,354	936	366	623	154
155	Laundry workers	893	745	939	971	815	882	992	811	873	963	795	1,125	1,016	698	1,155	778	766	1,056	1,323	1,081	1,337	562	155

158	Clerks (not civil service or local authority); typists	1,019	1,027	1,242	1,241	1,266	989	1,180	1,004	1,001	986	951	1,020	819	633	877	1,099	1,057	1,315	1,115	1,061	1,091	493	158
158*a*	Bank and insurance clerks	937	1,201	928	954	1,373	1,124	779	806	912	959	875	1,040	848	625	919	1,151	1,209	1,360	781	545	1,272	434	158*a*
158*b*	Railway clerks	920	915	1,104	1,105	830	775	1,107	1,218	911	820	815	825	817	581	902	1,183	1,063	1,607	771	846	695	312	158*b*
159	Draughtsmen	894	1,212	964	955	823	722	754	820	1,009	953	1,071	840	700	506	879	936	899	831	1,115	716	996	367	159
160	Warehousemen	1,007	1,118	1,145	1,156	819	1,000	959	1,004	1,055	1,088	1,216	963	1,041	1,006	1,098	1,084	1,424	1,000	760	994	798	400	160
160*a*	Warehousemen—textiles and clothing	1,421	1,486	2,038	2,048	1,111	1,498	2,328	1,370	1,026	1,102	1,170	1,037	1,251	1,163	1,350	1,845	2,601	2,472	708	1,272	848	458	160*a*
160*b*	Warehousemen—cereals, provisions and dry goods	1,039	832	1,235	1,266	889	889	623	1,339	1,152	1,208	1,172	1,242	1,102	869	1,222	1,461	1,715	921	2,031	957	481	347	160*b*
161	Storekeepers	952	962	1,008	1,008	1,148	1,122	574	953	973	999	1,093	909	1,030	990	1,020	859	1,500	697	208	661	992	572	161
162	Packers	1,097	852	1,292	1,330	1,063	1,202	328	909	1,001	951	938	963	1 246	1,399	1,231	1,128	1,171	1,135	1,083	1,093	1,111	688	162
163	Stationary engine and crane drivers	937	1,217	819	794	701	1,062	1,172	1,116	957	1,020	1,262	787	776	833	779	899	1,006	1,124	458	939	794	1,337	163
164	General and undefined labourers	1,438	1,335	1,622	1,650	1,686	1,380	787	1,261	1,371	1,384	1,498	1,274	1,742	1,946	1,685	1,168	1,329	798	1,031	1,267	1,140	1,191	164

TABLE E.—Mortality Rank of Occupations at Various Ages—Males—1921-23.

Position of each Occupation in a list arranged for each Age in order of Mortality, from No. 1, the lowest, to No. 178, the highest.

Note.—The positions for age group 16-20 have been omitted because of the low mortality, and those for ages over 70 are of doubtful significance because of variation in age constitution within the Group, *see* page xi.

Occupation Group No.	Occupation.	Ages 20—65.	20—	25—	35—	45—	55—	65—	70 and upwards.
1	Farmers and their relatives	9	15	24	19	13	6	11	35
2	Gardeners and their labourers	12	87	69	17	6	9	4	22
3	Farm bailiffs and foremen	1	7	2	4	2	3	20	144
4	Woodmen and labourers in woods and forests	13	130	31	23	19	1	3	60
5	Agricultural labourers (including shepherds)	11	50	44	14	9	7	8	72
6	Coal mine—subordinate superintending staff	27	26	48	7	24	57	119	163
7	Coal mine—hewers and getters	62	46	67	57	38	96	140	98
8	Coal mine—persons conveying material to the shaft	127	122	145	141	119	127	87	123
9	Coal mine—persons making and repairing roads	124	159	139	127	122	118	84	151
10	Coal mine—other workers below ground	130	156	138	119	136	128	109	134
11	Coal mine—workers above ground, not superintending staff	123	154	142	137	110	115	75	107
12	Iron ore mine—underground workers, not superintending staff	68	103	124	62	77	45	118	140
13	Tin and copper miners, not superintending staff	176	42	177	177	176	176	166	174
13A	Tin and copper mine—underground workers, not superintending staff	178	8	178	178	178	178	178	176
14	Stone miners and quarriers	65	98	64	87	37	67	99	130
15	Slate miners and quarriers	64	10	102	18	74	110	160	132
16	Cement workers, lime burners, etc.	14	16	25	51	34	2	27	66
17	Brick and plain tile makers, etc.; furnace and crucible pot makers	53	13	56	11	47	124	136	157
18	Potters' mill workers; slip makers; potters	170	124	113	155	166	173	133	116
19	Pottery dippers, glazers, painters, decorators	156	121	12	132	169	163	150	149
20	Earthenware, china, etc., kiln and oven men	172	82	32	171	174	174	169	77
21	Brick, tile, etc., kiln and oven men	37	23	3	83	22	104	156	165
22	Other persons engaged in the manufacture of bricks, tiles, and pottery	135	103	122	140	142	137	90	156
23	Skilled glass house workers	136	109	159	102	142	136	172	145
23A	Glass blowers and finishers, not machine hands	145	91	136	145	146	141	175	111
24	Other skilled glass workers	157	148	130	146	140	165	159	100
25	Chemical workers	37	115	38	77	35	37	58	9
26	Makers of paint, oil, soap, grease, etc.	50	102	73	62	40	56	43	11
27	Persons engaged in the smelting, rolling, and converting of iron and steel	92	27	108	99	84	101	66	114
27A	Puddlers	138	79	88	24	159	153	165	167
28	Metal moulders	118	71	100	108	108	138	139	146
29	Iron foundry furnacemen and labourers	115	118	108	131	128	93	61	90
30	Brass foundry furnacemen and labourers	164	105	171	172	115	166	65	135
31	Smiths and skilled forge workers	66	70	69	57	49	90	92	83
32	Machine tool workers and metal spinners	71	49	84	76	62	84	78	101
33	Fitters, tool setters, millwrights and similar occupations	57	75	76	75	50	60	76	57
34	Boiler makers and platers and their labourers	72	75	85	56	76	85	86	74
35	Brass finishers and turners	143	142	110	162	151	108	112	148
36	Coppersmiths	107	158	153	92	91	81	121	104
37	Cutlers	140	93	96	163	147	117	137	73
38	File cutters	173	91	175	174	172	168	173	143
39	Gas fitters and pipe fitters	75	151	64	78	27	97	30	96
40	Metal grinders	175	88	141	167	175	175	174	105
40A	Grinders in the cutlery trade	177	170	176	176	177	177	171	169
41	Metal glazers, polishers, buffers, and moppers	160	167	134	160	148	155	150	82
42	Plumbers	59	51	90	37	71	66	67	43
43	Rivetters and their labourers	103	120	119	130	91	72	134	172
44	Tinsmiths and sheet metal workers	83	88	47	81	99	94	71	87
45	Gold, silver, and white metal smiths	70	74	69	102	64	58	50	24
46	Electrical engineers, fitters, and wiremen	99	66	50	90	83	119	115	28
47	Makers of watches, clocks, scientific and electrical instruments	26	62	115	24	14	32	6	25
48	Skilled lime and tanyard workers, curriers, and leather dressers	114	125	148	138	88	92	83	129
49	Skilled leather goods makers	41	155	103	40	56	19	56	12
50	Wool sorters	129	162	169	134	82	134	70	37
51	Cotton blow room operatives—skilled	163	168	121	164	161	159	155	162
52	Rag grinders; wool willowers, etc.	125	172	40	136	96	139	146	155
53	Cotton card and frame (not spinning frame) tenters	168	33	166	158	153	172	148	171
54	Wool and worsted card comb, or frame (not spinning frame) tenters	151	95	152	156	149	146	123	120
55	Cotton strippers and grinders and card room jobbers	154	20	19	62	157	171	177	175
56	Cotton spinners and piecers	137	127	90	92	124	160	164	161

TABLE E.—MORTALITY RANK OF OCCUPATIONS AT VARIOUS AGES—MALES—1921–23—*continued.*

Occupation Group No.	OCCUPATION.	Ages 20—65.	20—	25—	35—	45—	55—	65—	70 and up-wards.
57	Wool and worsted spinners and piecers	111	160	49	54	119	129	129	106
58	Cotton—doublers, winders, warpers, beamers, etc.	134	132	112	122	135	143	162	164
59	Wool and worsted—doublers, winders, warpers, beamers, etc.	73	136	135	20	41	88	21	90
60	Cotton weavers	101	75	53	35	64	142	149	118
61	Woollen and worsted weavers	106	125	66	125	57	131	152	166
62	Weavers of other textiles	42	25	34	48	60	54	60	168
63	Hosiery frame tenters and machine knitters	54	123	42	31	54	79	2	112
64	Dye mixers and dyers	144	112	161	135	131	152	143	137
65	Scourers (woollen, worsted and hosiery); calenderers and finishers	86	45	111	128	52	90	153	125
66	Cutters of textile goods and clothing (not machine cutters)	120	164	146	73	133	116	51	133
67	Tailors; tailors' pressers and machinists	86	65	123	114	90	55	42	5
68	Hat formers, plankers, stiffeners	154	171	157	154	139	148	144	152
69	Boot and shoe makers and repairers (not factory workers)	85	116	150	124	95	23	18	20
70	Boot and shoe clickers and cutters	112	129	174	94	81	74	104	117
71	Skilled boot and shoe operatives—not clickers or cutters	116	153	139	113	93	107	142	121
72	Grain millers	23	33	15	22	11	64	44	109
73	Bakers and pastry cooks	31	96	50	45	53	29	19	8
74	Brewers of ale, stout, and porter	149	14	154	33	163	162	158	95
75	Cellarmen	162	150	154	168	144	161	97	97
76	Tobacco factory operatives	119	166	128	5	155	113	48	30
77	Foremen and overlookers (wood working)	5	47	9	1	12	12	54	58
78	Cabinet makers	93	96	60	73	102	98	69	56
79	Carpenters, coachbuilders, pattern makers, and similar occupations	28	69	39	32	38	42	29	47
80	French polishers	131	55	126	150	134	135	93	78
81	Sawyers; wood turners and machinists	34	53	28	67	67	27	79	126
82	Upholsterers, coach trimmers, and bedding makers	31	57	53	42	62	32	85	32
83	Paper mill workers	19	105	35	42	16	11	36	59
84	Hand compositors	80	79	129	88	69	75	91	62
85	Machine compositors	33	117	37	79	30	34	161	178
86	Photographers	39	43	104	123	32	14	74	51
87	Printing machine minders and assistants; machine rulers	82	62	107	61	69	112	47	4
88	Bookbinders and pattern card makers	110	169	120	65	112	102	53	40
89	Employers and managers in the building, contracting, and decorating trades; clerks of works	79	21	58	72	72	121	117	122
90	Foremen and gangers (building and contracting)	15	11	17	8	27	20	37	94
91	Bricklayers	29	32	20	39	58	46	55	69
92	Plasterers	83	41	60	111	86	95	63	70
93	Slaters and tilers	96	147	5	81	106	122	98	124
94	Masons; stone cutters and dressers	153	66	78	149	162	157	135	108
95	Slate masons and slate workers	167	35	173	152	167	167	167	173
96	Platelayers	51	61	67	51	61	61	105	141
97	Contractors' labourers; navvies	47	40	63	106	66	35	38	48
98	Painters and decorators	105	83	78	106	114	109	106	79
99	Building trade labourers	102	54	45	108	115	105	103	142
100	Rubber workers	43	84	85	30	55	51	1	2
101	Drafters and brush makers	146	177	147	144	165	44	124	67
102	Shipwrights	58	90	118	44	43	62	14	88
103	Shipyard labourers, etc.	150	140	167	161	152	114	122	45
104	Gas stokers	141	81	27	97	118	169	176	177
105	Railway officials, station masters, etc.	10	—	18	8	15	22	62	42
106	Locomotive engine drivers, firemen, cleaners, etc.	25	44	30	21	20	38	64	68
107	Railway guards	22	86	22	16	17	40	94	44
108	Railway signalmen	6	9	8	3	3	17	46	71
109	Shunters, pointsmen, and level crossing men	49	84	33	84	48	52	7	85
110	Railway porters and lampmen	91	72	92	101	102	71	88	110
111	Livery stable and motor garage proprietors and managers; haulage contractors	24	56	22	38	18	26	16	76
112	Drivers of horse-drawn vehicles	152	134	137	153	150	150	147	154
113	Drivers of motor vehicles and steam wagons	30	75	56	51	25	48	57	136
114	Tram drivers	35	152	88	46	31	30	17	159
115	Omnibus and tram conductors	76	38	98	85	126	47	89	160
116	Grooms and horse keepers	100	36	45	91	125	103	59	103
117	Bargemen and boatmen	142	139	151	147	145	126	116	119
118	Stevedores	169	109	159	169	168	164	157	158
119	Coal boat loaders and dischargers	132	131	132	151	126	130	154	131
120	Other dock labourers	165	133	149	166	164	158	130	147
121	Messengers, hall porters, lift attendants, etc.	126	176	164	116	113	83	81	7
122	Porters	161	162	167	165	158	144	125	92
123	Proprietors and managers of wholesale or retail dealing businesses	94	128	105	85	89	86	82	64

TABLE E.—Mortality Rank of Occupations at Various Ages—Males—1921-23—*continued.*

Occupation Group No.	Occupation.	Ages 20—65.	20—	25—	35—	45—	55—	65—	70 and upwards.
123A	Proprietors and managers of businesses for the sale of fish, meat, greengrocery, and milk	122	137	131	117	110	132	96	80
123B	Proprietors and managers of businesses for the sale of grocery and provisions	69	105	55	27	77	89	110	102
123C	Proprietors and managers of businesses for the sale of textiles and clothing	63	57	52	69	51	77	72	86
124	Salesmen and shop assistants	74	64	73	95	87	58	22	38
124A	Salesmen and shop assistants in businesses for the sale of fish, meat, greengrocery, and milk	139	100	117	139	137	149	114	139
124B	Salesmen and shop assistants in businesses for the sale of grocery and provisions	56	60	105	121	46	36	5	3
124C	Salesmen and shop assistants in businesses for the sale of textiles and clothing	104	94	95	120	117	81	10	89
125	Commercial travellers	113	111	98		119	120	131	113
126	Canvassers, roundsmen, and van salesmen	36	101	116	79	36	16	12	23
127	Costermongers, hawkers, and street sellers	171	145	172	173	170	154	127	84
128	Bank officials	4	—	1	24	5	10	32	34
129	Insurance officials	3	6	10	2	10	5	9	17
130	Insurance agents and canvassers	97	165	162	115	80	25	39	52
131	Auctioneers appraisers, valuers	95	161	78	59	109	76	100	53
132	Civil service officials and clerks	17	18	26	13	21	18	13	21
133	Local authority officials and clerks	20	31	28	15	26	28	28	15
134	Clergymen (Anglican Church)	2	—	7	10	4	4	26	10
135	Roman Catholic priests ; monks	21	—	11	47	23	53	35	61
136	Ministers of other religious bodies	7	—	4	6	7	24	25	49
137	Barristers	121	178*	126	129	104	80	31	36
138	Solicitors	46	30	6	60	94	63	45	6
139	Registered medical practitioners	90	148	60	66	100	87	40	26
140	Dentists	48	19	43	49	123	31	73	27
141	Teachers (not music teachers)	16	146	20	12	8	15	23	19
142	Music teachers	108	175	154	125	59	49	33	46
143	Civil engineers and surveyors	18	59	13	36	29	13	68	16
144	Architects	54	138	14	50	33	111	126	65
145	Authors, editors, journalists	77	22	16	68	132	99	95	29
146	Artists	78	38	73	108	101	67	41	50
147	Proprietors and managers of theatres, entertainments, sports	89	27	100	117	129	50	102	99
148	Actors	148	27	143	157	138	151	170	81
149	Musicians	128	143	124	148	130	125	132	93
150	Domestic servants (indoor)	40	66	58	70	75	21	24	13
151	Gamekeepers	8	12	96	29	1	8	52	128
152	Inn, hotel—keepers, publicans	166	24	158	170	171	156	141	115
153	Barmen	174	156	170	175	173	170	128	14
154	Waiters	147	141	69	142	160	140	107	153
155	Laundry workers	44	48	133	34	44	39	15	18
156	Hairdressers etc.	133	135	143	112	140	133	111	62
157	Chimney sweeps	117	174	41	105	97	123	77	55
158	Clerks (not civil service or local authority) ; typists	88	72	114	96	98	69	80	39
158A	Bank and insurance clerks	59	17	35	28	107	70	120	31
158B	Railway clerks	51	52	77	54	42	65	168	138
159	Draughtsmen	45	37	82	71	68	40	145	1
160	Warehousemen	80	114	83	100	79	77	113	75
160A	Warehousemen—textiles and clothing	158	173	165	143	154	145	163	170
160B	Warehousemen—cereals, provisions and dry goods	97	119	78	104	85	99	101	41
161	Storekeepers	67	98	94	98	73	43	49	33
162	Packers	109	112	85	133	105	106	34	54
163	Stationary engine and crane drivers	59	108	93	41	44	73	108	127
164	General and undefined labourers	159	144	163	159	156	147	138	150

* One death only, *see* page xci.

POSITION OF EACH OCCUPATION IN A LIST ARRANGED FOR EACH CAUSE IN ORDER OF STANDARDIZED MORTALITY FROM No. 1 THE LOWEST TO No. 178 THE HIGHEST (*see* page liii).

Group Number.	OCCUPATION.	All Causes.	Influenza.	Tuberculosis (all forms).	Respiratory tuberculosis.	Syphilis, etc.	Cancer (all sites).	Cancer of the stomach.*	Diabetes.	Cerebral hæmorrhage, etc.	Diseases of the circulatory system.	Disease of the heart.	Valvular disease of heart.	Other heart disease.	Diseases of the respiratory system.	Bronchitis.	Pneumonia.	Diseases of the digestive system.	Peptic ulcer.	Appendicitis.	Cirrhosis of liver.	Chronic nephritis.	Suicide.	Accident.	Group Number.
1	Farmers and their relatives	9	39	11	8	14	17	70	133	34	9	13	23	14	12	10	18	90	67	148	90	36	129	92	1
2	Gardeners and their labourers	12	42	37	40	33	53	51	41	12	17	26	49	22	13	24	10	31	50	99	33	13	85	40	2
3	Farm bailiffs and foremen	1	29	3	2	22	11	40	10	6	4	5	11	6	5	12	17	8	30	31	22	8	122	93	3
4	Woodmen and labourers in woods and forests	13	21	39	36	45	20	106	94	7	11	18	13	50	2	7	2	36	112	103	31	1	89	163	4
5	Agricultural labourers (including shepherds)	11	70	21	19	23	11	57	31	17	10	15	27	16	18	33	23	15	26	42	25	15	92	111	5
6	Coal mine—subordinate superintending staff	27	82	9	9	31	31	109	25	87	21	20	24	31	28	50	20	66	28	140	106	33	37	173	6
7	Coal mine—hewers and getters	62	117	32	28	93	34	127	21	78	32	40	56	32	117	130	88	33	33	60	56	24	65	169	7
8	Coal mine—persons conveying material to the shaft	127	145	40	44	82	33	89	84	134	106	127	137	108	126	134	98	123	86	61	76	41	95	178	8
9	Coal mine—persons making and repairing roads	124	161	58	62	85	103	154	54	142	88	95	119	71	132	129	118	101	81	43	78	45	44	176	9
10	Coal mine—other workers below ground	130	165	70	68	88	74	160	74	111	112	113	129	86	141	139	143	104	69	65	96	64	62	175	10
11	Coal mine—workers above ground, not superintending staff	123	163	93	81	100	50	112	64	148	139	151	168	106	139	143	124	74	57	40	83	80	52	154	11
12	Iron ore mine—underground workers, not superintending staff	68	175	62	52	9	41	92	47	79	16	7	34	4	80	54	32	61	22	130	27	6	66	168	12
13	Tin and copper miners—not superintending staff	176	130	177	177	—	152	92	176	176	168	169	63	173	176	173	11	97	85	156	—	169	176	165	13
13*a*	Tin and copper mine—underground workers, not supertdg. staff	178	10	178	178	—	176	165	174	178	178	178	166	178	178	175	58	132	144	170	—	177	178	166	13*a*
14	Stone miners and quarriers	65	102	65	70	72	6	60	51	57	53	52	120	13	95	85	96	41	57	73	—	4	58	172	14
15	Slate miners and quarriers	64	135	143	145	24	14	150	—	11	100	109	169	9	26	37	6	4	77	—	—	2	4	167	15
16	Cement workers, lime burners, etc.	14	19	24	29	20	54	70	157	1	2	2	10	2	77	40	134	40	153	—	65	17	60	161	16
17	Brick and plain tile makers, etc.; furnace, etc., pot makers	53	138	91	93	154	47	122	15	22	67	80	108	67	120	152	39	18	131	—	—	16	70	36	17
18	Potters' mill workers; slip makers; potters	170	133	173	173	27	45	17	76	116	142	137	164	85	173	176	132	153	150	99	160	158	165	56	18
19	Pottery dippers, glazers, painters, decorators	156	151	146	138	—	166	162	105	173	171	168	91	171	110	146	63	134	125	—	171	172	32	—	19
20	Earthenware, china, etc., kiln and oven men	172	155	168	167	30	169	126	23	146	139	159	32	172	175	174	160	113	157	154	124	167	119	80	20
21	Brick, tile, etc., kiln and oven men	37	80	31	29	69	30	19	22	30	64	83	125	38	106	125	38	2	10	48	—	118	131	98	21
22	Other persons engaged in the manuf. of bricks tiles and pottery	135	148	111	103	101	108	153	136	124	133	132	131	129	152	165	116	139	167	141	53	102	117	151	22
23	Skilled glasshouse workers	136	127	134	136	58	147	55	177	139	115	100	133	62	147	166	95	22	64	69	108	87	167	34	23
23*a*	Glass blowers and finishers, not machine hands	145	30	135	140	112	165	19	178	75	107	69	104	50	156	171	80	88	110	73	148	137	156	20	23*a*
24	Other skilled glass workers	157	168	155	155	127	152	146	171	166	89	50	61	57	162	162	163	3	9	38	61	157	154	76	24
25	Chemical workers	37	122	36	42	59	137	114	49	15	22	32	39	41	92	122	85	66	15	143	94	10	19	144	25
26	Makers of paint, oil, soap, grease, etc.	50	125	59	56	39	80	108	24	120	60	79	77	83	85	116	36	35	14	114	20	46	20	117	26
27	Persons engaged in smelting, rolling, converting of iron and steel	92	147	59	62	44	119	101	44	68	33	28	44	29	140	119	151	68	72	52	97	28	82	142	27
27*a*	Puddlers	138	53	81	64	28	170	98	17	147	20	14	37	11	166	167	172	76	108	—	—	21	124	78	27*a*
28	Metal moulders	118	150	97	101	56	135	111	85	128	72	73	66	88	151	140	162	92	57	115	128	98	71	69	28
29	Iron foundry furnacemen and labourers	115	166	78	89	56	89	106	83	51	89	67	95	55	161	144	174	11	35	34	26	135	57	88	29
30	Brass foundry furnacemen and labourers	164	177	167	164	144	93	33	71	168	148	138	74	156	167	151	178	152	156	165	150	91	99	95	30
31	Smiths and skilled forge workers	66	95	57	58	113	114	119	125	65	51	47	75	28	103	114	107	59	83	43	84	67	64	83	31
32	Machine tool workers and metal spinners	71	75	101	110	91	96	109	57	125	62	59	81	58	84	97	77	52	70	94	39	75	68	37	32
33	Fitters, tool setters, millwrights and similar occupations	57	53	75	72	136	67	62	78	119	59	57	76	49	47	52	50	83	81	69	102	79	59	116	33
34	Boiler makers and platers and their labourers	72	72	69	74	125	66	62	90	115	69	64	102	45	94	90	108	115	120	108	70	69	99	110	34
35	Brass finishers and turners	143	158	161	163	150	159	173	38	112	35	37	65	20	145	142	152	117	154	111	145	104	24	47	25
36	Coppersmiths	107	159	152	153	61	42	12	—	174	5	9	70	1	56	9	83	126	99	124	126	174	—	72	36
37	Cutlers	140	31	165	168	49	117	32	46	81	160	142	161	107	142	80	153	1	—	—	—	50	118	159	37
38	File cutters	173	174	171	171	—	124	—	165	175	149	145	174	36	164	172	106	103	118	175	155	178	93	29	38
39	Gas fitters and pipe fitters	75	121	74	71	54	146	135	45	141	6	6	9	15	95	77	117	79	151	99	102	57	122	112	39
40	Metal grinders	175	160	175	175	134	162	161	152	159	157	157	94	166	172	170	165	108	30	132	115	85	135	96	40
40*a*	Grinders in the cutlery trade	177	178	176	176	159	177	168	142	171	177	176	173	177	177	178	177	99	76	—	146	132	126	105	40*a*
41	Metal glazers, polishers, buffers, and moppers	160	172	162	165	123	150	177	38	143	132	149	72	165	158	149	171	109	142	150	44	124	115	9	41
42	Plumbers	59	61	51	54	60	39	23	64	153	37	25	52	17	36	43	62	94	123	54	87	163	69	125	42
43	Rivetters and their labourers	103	100	116	116	161	63	87	38	131	69	63	69	73	133	136	146	39	35	84	41	46	18	136	43
44	Tinsmiths and sheet metal workers	83	123	117	121	98	96	112	124	75	63	81	57	117	109	66	141	24	109	58	18	90	51	50	44
45	Gold, silver, and white metal smiths	70	8	102	104	139	133	92	59	59	71	72	73	80	99	84	93	32	39	24	30	102	87	79	45
46	Electrical engineers, fitters and wiremen	99	102	105	108	154	84	62	78	75	108	91	92	98	67	65	78	135	146	79	138	49	110	132	46
47	Makers of watches, clocks, scientific and electrical instruments	26	109	89	94	35	35	57	129	24	44	55	18	125	8	27	7	27	97	30	20	138	155	6	47
48	Skilled lime and tanyard workers, curriers, and leather dressers	114	106	138	139	63	127	124	71	32	81	76	103	63	114	88	140	150	160	136	153	60	156	87	48
		(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*	*(16)*	*(17)*	*(18)*	*(19)*	*(20)*	*(21)*	*(22)*	*(23)*	

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* *See* Appendix D.

TABLE F.—MORTALITY RANK OF MALES AGED 20–65 YEARS FROM CERTAIN SELECTED CAUSES—1921–23—*continued.*

Group Number.	Occupation.	All Causes. (1)	Influenza. (2)	Tuberculosis (all forms). (3)	Respiratory tuberculosis. (4)	Syphilis, etc. (5)	Cancer (all sites). (6)	Cancer of the stomach.* (7)	Diabetes. (8)	Cerebral hæmorrhage, etc. (9)	Diseases of the circulatory system. (10)	Disease of the heart. (11)	Valvular disease of heart. (12)	Other heart disease. (13)	Diseases of the respiratory system. (14)	Bronchitis. (15)	Pneumonia. (16)	Diseases of the digestive system. (17)	Peptic ulcer. (18)	Appendicitis. (19)	Cirrhosis of liver. (20)	Chronic nephritis. (21)	Suicide. (22)	Accident. (23)	Group Number.
49	Skilled leather goods makers	41	112	103	83	65	6	33	101	93	120	123	140	93	40	78	30	50	78	28	61	28	43	60	49
50	Wool sorters	129	128	100	99	171	19	27	175	35	155	141	111	151	127	98	159	105	175	156	—	120	177	67	50
51	Cotton blow room operatives—skilled	163	34	30	39	29	109	169	173	169	166	163	171	148	171	169	175	170	35	146	167	176	171	12	51
52	Rag grinders, wool willowers, etc.	125	88	96	107	130	132	178	25	169	143	143	61	162	71	135	25	138	170	81	81	170	145	33	52
53	Cotton card and frame (not spinning frame) tenters	168	171	110	98	17	155	36	60	177	175	175	178	169	165	137	173	146	177	119	—	168	169	134	53
54	Wool and worsted card comb or frame (not spinning frame) tenters	151	63	151	144	53	59	99	12	150	138	120	143	78	148	160	147	169	159	106	44	161	141	141	54
55	Cotton strippers and grinders and card room jobbers	154	176	45	50	108	46	6	120	138	164	171	177	133	174	177	155	54	136	—	—	154	50	121	55
56	Cotton spinners and piecers	137	109	104	102	42	173	166	74	152	152	154	163	139	129	131	121	145	87	126	97	146	138	34	56
57	Wool and worsted spinners and piecers	111	27	67	65	—	144	163	141	149	104	131	121	136	49	36	97	137	43	173	169	175	45	91	57
58	Cotton—doublers, winders, warpers, beamers, etc.	134	144	98	59	31	138	145	29	136	158	162	158	158	146	148	148	98	72	—	121	107	151	38	58
59	Wool and worsted—doublers, winders, warpers, beamers, etc.	73	16	26	15	142	93	8	164	154	170	161	153	159	48	63	21	100	11	176	97	145	158	7	59
60	Cotton weavers	101	114	41	35	39	77	129	120	163	130	135	151	109	107	138	53	118	87	121	22	119	146	8	60
61	Woollen and worsted weavers	106	3	125	115	13	83	97	170	69	161	155	170	119	21	70	8	154	124	88	111	150	6	85	61
62	Weavers of other textiles	42	7	80	66	15	27	83	52	157	114	134	86	154	37	42	66	25	8	65	—	142	29	13	62
63	Hosiery frame tenters and machine knitters	54	38	63	37	78	62	170	95	102	52	11	20	18	35	57	21	118	5	—	168	133	172	55	63
64	Dye mixers and dyers	144	167	119	119	102	110	132	154	106	152	156	157	149	144	155	142	158	148	106	147	135	96	122	64
65	Scourers (woollen, worsted and hosiery), calenderers and finishers	86	81	83	85	16	93	157	142	118	121	129	142	104	105	127	101	72	12	108	38	142	27	28	65
66	Cutters of textile goods and clothing (not machine cutters)	120	2	160	158	137	87	9	78	151	94	122	139	91	121	98	133	96	148	—	41	144	41	24	66
67	Tailors; tailors' pressers and machinists	86	41	136	135	131	57	54	99	98	111	117	84	134	69	109	41	89	117	83	51	88	127	18	67
68	Hat formers, plankers, stiffeners	154	84	157	152	71	172	167	123	161	172	173	147	174	138	113	138	157	134	—	166	149	7	66	68
69	Boot and shoe makers and repairers (not factory workers)	85	70	137	128	111	38	66	35	85	80	93	116	73	89	112	74	82	114	26	86	65	130	27	69
70	Boot and shoe clickers and cutters	112	51	154	156	89	91	115	61	156	136	144	134	147	54	96	27	52	78	65	119	105	15	21	70
71	Skilled boot and shoe operatives, not clickers or cutters	116	45	156	157	131	69	124	107	121	92	118	122	102	102	103	94	110	161	121	76	62	132	4	71
72	Grain millers	23	83	29	33	35	10	48	128	36	14	23	5	118	76	71	88	25	4	93	100	5	152	108	72
73	Bakers and pastry cooks	31	91	87	90	67	79	84	101	26	39	42	55	39	72	62	88	16	56	25	70	20	105	42	73
74	Brewers of ale, stout, and porter	149	23	24	29	178	154	—	101	172	134	112	126	89	78	120	5	176	173	177	177	155	175	162	74
75	Cellarmen	162	170	139	143	161	175	68	—	60	169	170	126	170	137	145	81	172	171	—	175	164	162	147	75
76	Tobacco factory operatives	119	24	159	160	110	134	128	167	10	158	135	160	94	42	61	60	164	166	50	114	7	82	3	76
77	Foremen and overlookers (wood working)	5	34	8	10	18	40	171	54	37	3	3	12	3	11	22	14	5	3	90	—	131	12	74	77
78	Cabinet makers	93	65	118	117	91	128	144	115	103	98	88	51	127	86	121	51	45	107	48	36	22	128	45	78
79	Carpenters, coach builders, pattern makers and similar occupations	28	60	61	57	78	73	76	69	62	33	39	53	30	31	49	34	38	55	86	54	76	45	82	79
80	French polishers	131	15	150	150	141	140	133	78	123	113	98	59	124	134	132	122	124	169	46	79	127	147	62	80
81	Sawyers; wood turners and machinists	34	78	71	81	83	112	134	57	29	43	49	60	53	43	64	28	46	41	115	110	14	97	99	81
82	Upholsterers, coach trimmers and bedding makers	31	37	122	123	43	113	102	9	39	31	45	79	23	41	72	46	14	41	63	24	38	56	41	82
83	Paper mill workers	19	20	28	24	38	54	102	148	26	24	29	110	5	27	15	53	20	7	130	33	86	80	105	83
84	Hand compositors	80	114	126	125	104	70	38	139	106	93	95	48	135	62	104	43	93	54	138	90	122	16	25	84
85	Machine compositors	33	4	123	130	47	5	—	93	3	123	125	46	155	88	68	112	65	165	—	69	3	23	77	85
86	Photographers	39	86	88	77	97	9	42	156	70	101	107	36	151	19	27	24	47	6	—	156	68	99	58	86
87	Printing machine minders and assistants; machine rulers	82	73	124	121	116	72	77	92	94	103	95	96	100	79	107	72	49	127	77	44	71	49	52	87
88	Bookbinders and pattern card makers	110	97	114	118	150	164	148	112	18	101	100	149	25	93	98	79	139	168	—	61	17	139	5	88
89	Employers, managers in the building, etc., trades; clerks of works	79	50	26	27	50	107	99	125	155	125	106	89	122	51	59	42	128	115	103	130	140	114	143	89
90	Foremen and gangers (building and contracting)	15	42	1	1	45	21	72	110	47	28	34	90	10	33	39	48	37	93	23	102	73	38	170	90
91	Bricklayers	29	33	38	46	105	86	75	31	41	45	51	88	35	82	75	91	43	64	54	101	37	42	115	91
92	Plasterers	83	56	55	60	114	142	174	41	72	75	87	66	111	119	102	130	47	99	154	36	120	60	138	92
93	Slaters and tilers	96	14	94	86	68	158	52	105	62	91	116	172	8	108	55	139	29	45	—	66	23	47	155	93
94	Masons, stone cutters and dressers	153	130	164	161	89	118	158	43	135	127	133	131	130	149	152	110	112	134	39	115	115	102	128	94
95	Slate masons and slate workers	167	173	174	174	37	106	152	—	16	176	177	175	176	38	14	52	9	—	162	148	166	—	11	95
96	Platelayers	51	129	23	22	83	88	81	95	42	56	68	109	42	74	73	86	30	50	64	80	11	67	171	96
97	Contractors' labourers; navvies	47	117	49	55	47	71	91	31	44	40	48	82	26	103	94	113	21	50	32	47	40	38	153	97
98	Painters and decorators	105	90	90	96	120	100	88	78	162	95	86	113	69	87	106	84	51	105	51	64	162	75	124	98
99	Building trade labourers	102	108	92	100	107	122	135	17	71	86	94	98	97	131	133	131	94	139	52	68	51	54	150	99
100	Rubber workers	43	57	99	97	78	120	135	—	101	35	44	31	77	81	55	120	83	21	—	163	83	7	43	100
101	Drafters and brush makers	146	52	170	170	133	68	131	70	14	105	99	80	116	153	164	144	86	125	127	118	152	75	2	101
102	Shipwrights	58	6	95	92	163	100	141	30	96	84	90	135	43	83	82	68	10	17	111	—	24	31	135	102
103	Shipyard labourers, etc.	150	169	144	146	170	139	172	20	100	119	119	154	47	163	161	167	87	113	65	—	92	107	160	103
104	Gas stokers	141	164	105	105	102	171	90	71	56	124	114	128	91	150	158	154	127	78	139	112	124	22	145	104
105	Railway officials, station masters, etc.	10	98	13	14	11	32	30	131	58	26	17	28	21	9	25	9	68	12	136	40	27	33	54	105

107	Railway guards	22	119	14	13	52	42	42	85	61	15	19	19	48	30	31	55	71	60	119	41	52	36	157	107
108	Railway signalmen	6	101	12	12	39	8	50	142	99	8	10	7	44	3	18	3	12	27	21	50	33	13	47	108
109	Shunters, pointsmen, and level-crossing men..	49	44	20	25	124	49	120	87	109	25	36	17	82	60	104	47	23	137	22	33	44	16	177	109
110	Railway porters and lampmen	91	139	112	113	138	104	138	125	92	38	46	45	68	100	123	60	62	145	43	52	95	35	129	110
111	Livery stable, motor garage proprs., etc.; haulage contractors	24	36	18	20	63	25	25	47	24	41	41	28	70	46	83	31	105	105	148	135	61	147	127	111
112	Drivers of horse-drawn vehicles	152	140	129	129	152	157	151	99	137	144	147	145	144	154	156	156	136	147	69	125	129	79	156	112
113	Drivers of motor vehicles and steam wagons	30	46	43	47	128	82	77	77	19	48	58	70	65	64	69	57	81	70	90	73	26	81	103	113
114	Tram drivers	35	153	68	76	153	52	26	114	2	83	54	34	99	65	93	45	6	39	28	59	31	10	10	114
115	Omnibus and tram conductors	76	55	130	134	12	148	116	113	4	47	43	40	64	111	117	105	131	91	166	—	130	73	14	115
116	Grooms and horse keepers	100	61	77	79	147	105	72	10	84	87	103	138	59	122	108	136	80	67	69	113	88	142	126	116
117	Bargemen and boatmen	142	162	109	112	174	136	147	37	145	141	148	150	139	128	124	123	27	103	35	73	113	20	174	117
118	Stevedores	169	31	166	166	164	160	118	34	42	135	140	159	105	170	157	176	166	176	164	72	151	173	149	118
119	Coal boat loaders and dischargers	132	157	72	91	165	149	15	101	80	150	139	122	142	160	150	168	13	33	—	127	109	24	146	119
120	Other dock labourers	165	124	158	159	166	156	164	25	127	145	146	146	143	168	163	170	149	152	41	131	108	109	158	120
121	Messengers, hall porters, lift attendants, etc.	126	104	145	148	149	123	77	17	55	137	150	167	113	118	86	137	129	154	27	102	46	78	113	121
122	Porters	161	142	153	154	167	168	155	68	108	162	165	152	163	157	159	164	162	163	121	90	82	119	123	122
123	Proprietors and managers of wholesale or retail dealing businesses..	94	111	52	53	117	60	65	147	105	122	121	77	141	75	53	101	144	61	151	158	128	160	89	123
123*a*	Proprs., etc., of businesses for sale of fish, meat, greengrocery, milk	122	130	64	67	135	102	92	161	132	156	158	130	161	115	87	125	155	45	135	164	153	160	90	123*a*
123*b*	Proprs., etc., of businesses for the sale of grocery and provisions ..	69	107	34	26	87	48	61	158	117	129	126	101	138	52	31	82	156	128	118	139	139	124	31	123*b*
123*c*	Proprs., etc., of businesses for the sale of textiles and clothing ..	63	84	54	51	98	36	47	67	87	96	70	41	120	50	38	67	133	24	124	154	112	149	74	123*c*
124	Salesmen and shop assistants	74	87	107	106	119	61	72	145	91	99	102	107	100	66	92	59	64	50	57	129	76	86	64	124
124*a*	Salesmen, etc., in businesses for sale of fish, meat, greengrocery, milk	139	126	113	111	148	129	143	163	158	163	164	155	160	136	141	129	113	84	88	143	147	121	84	124*a*
124*b*	Salesmen, etc., in businesses for the sale of grocery and provisions..	56	48	127	127	65	18	49	162	113	58	59	85	52	43	60	64	56	122	33	134	55	103	52	124*b*
124*c*	Salesmen, etc., in businesses for the sale of textiles and clothing ..	104	57	132	126	93	141	123	132	62	109	115	115	114	68	110	35	42	61	79	107	52	98	97	124*c*
125	Commercial travellers	113	73	82	88	157	131	57	153	109	128	127	114	131	63	45	92	159	72	161	159	111	153	120	125
126	Canvassers, roundsmen and van salesmen	36	93	76	84	117	64	67	8	28	57	89	100	81	70	81	65	7	49	20	94	63	88	102	126
127	Costermongers hawkers and street sellers	171	116	169	169	175	126	142	87	95	167	166	156	164	169	168	169	139	120	35	143	148	136	152	127
128	Bank officials	4	49	4	5	10	3	13	14	53	12	12	3	79	14	5	29	148	128	174	141	70	13	59	128
129	Insurance officials	3	77	7	7	26	4	81	155	37	7	4	1	24	7	8	13	77	15	151	56	33	29	49	129
130	Insurance agents and canvassers	97	143	148	142	76	37	92	95	67	64	75	105	60	57	79	26	91	111	133	54	81	144	73	130
131	Auctioneers, appraisers, valuers	95	93	35	38	146	99	38	166	74	116	85	47	126	21	19	76	151	64	169	161	106	166	140	131
132	Civil service officials and clerks	17	27	42	48	62	44	28	107	20	29	27	22	61	15	29	11	63	63	73	84	42	47	43	132
133	Local authority officials and clerks	20	75	46	43	50	23	35	117	82	19	16	21	32	17	26	19	102	138	127	108	92	77	57	133
134	Clergymen (Anglican Church)	2	13	6	6	8	2	29	61	23	13	8	4	37	6	3	15	74	93	142	56	42	93	63	134
135	Roman Catholic priests; monks	21	91	17	18	—	16	10	149	129	74	82	7	157	29	—	103	19	28	94	—	159	—	118	135
136	Ministers of other religious bodies	7	47	5	4	7	1	16	133	13	110	91	26	146	4	4	4	121	30	168	59	66	5	15	136
137	Barristers	121	1	2	2	70	130	—	—	31	173	172	87	175	24	2	87	178	178	178	73	156	133	94	137
138	Solicitors	46	22	15	17	108	76	24	87	97	77	34	16	90	55	11	111	160	25	158	170	92	163	32	138
139	Registered medical practitioners	90	141	10	11	96	29	14	151	85	53	33	6	123	90	16	149	168	87	145	150	134	170	164	139
140	Dentists	48	17	33	41	76	13	36	169	5	46	22	58	12	39	16	104	172	43	73	173	140	168	119	140
141	Teachers (not music teachers)	16	113	22	23	25	22	31	117	54	27	24	15	72	10	13	16	73	45	97	66	39	73	68	141
142	Music teachers	108	99	53	69	158	74	5	149	160	118	110	148	54	143	51	158	57	20	86	142	56	9	100	142
143	Civil engineers and surveyors	18	68	16	16	106	28	11	146	49	23	31	14	84	16	6	33	85	19	103	132	58	103	100	143
144	Architects	54	18	44	32	34	110	18	116	103	75	71	50	110	53	23	98	167	141	172	136	52	72	22	144
145	Authors, editors, journalists	77	69	47	34	143	85	21	49	133	146	111	112	112	32	48	49	165	130	99	172	113	112	61	145
146	Artists	78	156	85	95	169	121	84	52	9	66	56	33	103	97	111	36	17	17	151	31	116	84	17	146
147	Proprietors and managers of theatres, entertainments, sports ..	89	5	83	80	168	26	120	159	46	73	76	30	128	73	30	127	161	132	159	165	109	159	136	147
148	Actors	148	95	140	141	177	145	139	133	122	125	108	97	121	34	21	69	174	162	159	174	160	106	107	148
149	Musicians	128	11	131	133	172	163	129	137	45	147	152	141	150	123	118	135	142	93	163	136	99	34	109	149
150	Domestic servants (indoor)	40	26	56	61	129	90	41	109	32	30	30	25	56	23	34	56	120	102	143	47	117	136	69	150
151	Gamekeepers	8	25	50	45	21	65	52	130	8	1	1	2	7	1	20	1	43	103	97	27	8	150	114	151
152	Inn, hotel—keepers, publicans	166	154	133	132	121	143	86	172	165	165	167	144	168	135	74	157	177	163	167	178	171	174	131	152
153	Barmen	174	149	172	172	173	174	176	16	167	174	174	176	167	159	154	166	175	174	54	176	173	163	133	153
154	Waiters	147	63	147	149	176	178	175	160	40	55	53	93	27	130	88	150	143	45	77	162	72	11	81	154
155	Laundry workers..	44	40	72	78	73	51	44	95	50	42	66	38	114	91	58	118	34	35	96	133	100	143	65	155
156	Hairdressers, etc.	133	8	141	137	156	92	69	140	164	130	124	83	145	116	101	115	147	87	115	150	165	139	19	156
157	Chimney sweeps	117	12	142	147	19	167	148	—	20	154	160	162	151	113	126	109	60	22	35	140	97	111	104	157
158	Clerks (not civil service or local authority); typists	88	104	121	120	139	78	45	120	89	79	73	68	86	59	47	69	111	98	129	122	92	108	51	158
158*a*	Bank and insurance clerks	59	133	66	72	144	116	46	61	47	50	65	54	96	61	46	75	122	118	133	90	12	134	39	158*a*
158*b*	Railway clerks	51	79	108	109	78	24	7	111	126	49	37	43	40	58	44	73	130	99	147	89	59	40	16	158*b*
159	Draughtsmen	45	136	79	75	75	15	22	56	52	82	62	99	45	25	35	71	78	72	61	122	32	91	26	159
160	Warehousemen	80	120	115	114	74	80	80	91	89	97	104	124	75	101	95	114	107	140	92	87	83	54	30	160
160*a*	Warehousemen—textiles and clothing	158	152	163	162	122	161	158	168	144	85	105	117	95	125	115	145	171	172	171	81	126	62	45	160*a*
160*b*	Warehousemen—cereals, provisions and dry goods	97	59	119	124	93	54	102	35	140	116	130	118	132	112	76	126	163	158	81	157	78	24	22	160*b*
161	Storekeepers	67	88	86	87	126	115	116	28	73	68	78	106	66	98	91	100	57	143	47	19	19	90	69	161
162	Packers	109	65	127	131	115	125	105	13	66	77	61	64	75	124	128	128	116	116	111	119	101	112	86	162
163	Stationary engine and crane drivers	59	137	48	49	54	98	139	119	113	61	84	136	34	45	67	44	70	91	108	49	73	52	148	163
164	General and undefined labourers	159	145	149	151	160	151	156	64	130	151	153	164	137	155	147	161	125	133	58	117	123	116	130	164

* *See* Appendix D.

Table G.—*Mortality at Ages, from certain selected Causes, of the Five Social Classes and of the Never-Occupied, as compared with that of All Occupied and Retired Civilian Males taken as* 100 *in each case*—1921–23.

—	Age.	Social Class.					Never occupied.
		I.	II.	III.	IV.	V.	
All causes	16–	57	83	98	100	121	387
	20–	67	87	99	104	116	275
	25–	65	94	95	105	125	246
	35–	76	92	92	105	138	170
	45–	85	94	93	101	130	109
	55–	87	96	98	97	119	51
	65–	94	99	100	94	110	24
	70 and over	82	98	97	102	115	9
Influenza	16–	45	91	91	109	100	327
	20–	54	85	108	108	92	308
	25–	83	106	89	106	133	244
	35–	89	104	89	111	118	136
	45–	78	90	93	120	120	102
	55–	89	86	96	111	115	53
	65–	106	96	92	112	108	20
	70 and over	103	104	91	103	111	10
Respiratory tuberculosis	16–	41	90	103	86	129	358
	20–	37	89	103	99	116	227
	25–	43	99	97	99	121	192
	35–	54	86	94	103	149	117
	45–	52	75	96	101	154	87
	55–	55	69	103	98	152	32
	65–	65	80	105	84	142	21
	70 and over	92	75	94	92	192	7
Other tuberculosis ...	16–	17	67	100	100	128	644
	20–	78	89	100	106	111	506
	25–	92	100	100	92	100	446
	35–	55	109	91	100	109	273
	45–	73	100	100	100	100	191
	55–	58	92	100	92	125	60
	65–	100	85	92	85	131	30
	70 and over	57	86	100	100	157	4
Syphilis, etc. ...	25–	76	65	100	105	145	302
	35–	54	81	92	104	165	257
	45–	74	88	98	98	140	159
	55–	87	105	98	84	115	75
	65–	116	114	96	84	98	44
	70 and over	102	114	98	74	114	14
Syphilis	35–	43	93	86	111	168	193
	45–	73	85	76	102	188	127
	55–	63	78	98	82	165	106
	65–	—	102	106	83	119	83
	70 and over	57	66	86	74	269	—
Tabes dorsalis ...	35–	24	76	84	116	196	172
	45–	58	108	96	82	132	219
	55–	125	125	100	81	81	56
	65–	79	121	100	89	84	63
	70 and over	80	113	100	67	93	9
General paralysis of insane	25–	100	71	106	83	151	371
	35–	56	78	94	94	156	256
	45–	86	86	95	90	129	129
	55–	80	100	100	80	127	100
	65–	149	125	102	36	126	15
	70 and over	107	107	104	77	98	11
Aneurysm	35–	52	85	85	115	164	33
	45–	55	82	100	109	136	182
	55–	63	100	95	95	116	63
	65–	163	105	89	100	95	28
	70 and over	122	128	94	72	106	23
Cancer, all sites* ...	25–	91	109	100	100	118	136
	35–	60	88	100	100	128	85
	45–	88	90	96	98	127	74
	55–	78	93	100	95	121	35
	65–	85	103	102	89	106	24
	70 and over	90	103	97	98	109	9
Chronic rheumatism, etc.: gout ...	45–	79	84	111	71	132	55
	55–	50	93	107	107	100	79
	65–	100	103	97	97	108	36
	70 and over	88	96	90	112	123	11
Diabetes	16–	79	70	115	97	85	424
	20–	96	113	100	96	93	129
	25–	115	129	96	85	95	149
	35–	70	119	99	99	78	113
	45–	148	151	90	70	84	133
	55–	144	170	94	66	45	77
	65–	234	175	93	55	41	52
	70 and over	205	178	72	57	46	19
Cerebral haemorrhage, etc.	25–	124	85	100	88	124	294
	35–	64	100	100	91	136	218
	45–	92	106	96	98	110	96
	55–	89	103	101	93	104	47
	65–	91	100	105	94	98	22
	70 and over	88	102	99	99	103	8
Other diseases of nervous system ...	16–	62	69	92	108	138	1,000
	20–	43	93	93	107	157	1,357
	25–	63	88	88	113	156	1,269
	35–	82	95	91	100	141	732
	45–	100	103	91	100	126	243
	55–	88	99	103	93	107	125
	65–	111	109	99	92	100	43
	70 and over	108	105	96	92	107	14
Disease of circulatory system	16–	33	89	100	83	139	550
	20–	54	96	89	104	125	193
	25–	49	88	93	100	137	117
	35–	68	93	92	103	137	123
	45–	90	101	88	101	125	93
	55–	109	106	96	93	110	54
	65–	111	107	98	90	105	26
	70 and over	94	102	95	99	114	10
Diseases of the heart	16–	33	89	100	83	139	550
	20–	56	96	93	104	126	200
	25–	45	90	93	100	138	120
	35–	65	92	92	106	138	123
	45–	79	99	89	103	127	92
	55–	98	105	96	95	111	46
	65–	105	110	97	92	102	25
	70 and over	88	105	94	99	110	9
Valvular disease of heart	16–	25	87	102	86	139	558
	20–	38	88	94	100	131	194
	25–	32	82	91	105	145	95
	35–	47	86	94	111	139	125
	45–	49	88	96	106	132	79
	55–	72	94	98	104	115	40
	65–	75	106	98	97	105	20
	70 and over	82	104	95	103	107	9
Other heart disease	16–	35	99	100	84	140	547
	20–	82	109	91	109	118	209
	25–	61	100	94	94	128	150
	35–	87	100	90	100	137	120
	45–	110	111	83	100	123	104
	55–	120	114	95	87	107	50
	65–	127	112	97	88	99	29
	70 and over	91	106	94	97	112	10
Arterio-sclerosis ...	35–	121	121	86	83	134	38
	45–	163	111	84	84	121	100
	55–	154	107	95	86	110	87
	65–	120	97	100	86	117	28
	70 and over	105	94	98	98	121	10
Other diseases of circulatory system ...	45–	164	103	92	106	97	144
	55–	147	138	87	88	84	70
	65–	315	146	85	77	69	20
	70 and over	164	120	96	84	84	18

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* The deaths and rates of mortality from cancer of various sites will be found in Appendix C.

TABLE G—*continued.*

—	Age.	Social Class.					Never occupied.
		I.	II.	III.	IV.	V.	
Diseases of respiratory system	16–	58	79	96	104	121	308
	20–	50	74	97	112	147	264
	25–	63	82	90	116	151	188
	35–	73	82	86	116	163	112
	45–	71	77	90	109	160	76
	55–	55	71	96	109	152	34
	65–	51	69	101	107	140	14
	70 and over	57	82	102	108	133	7
Bronchitis	20–	—	71	90	135	123	484
	25–	24	64	83	139	169	271
	35–	25	55	80	130	205	140
	45–	30	55	89	118	195	52
	55–	25	54	99	118	164	25
	65–	27	54	105	112	151	9
	70 and over	39	75	106	114	136	6
Pneumonia	16–	38	76	95	105	114	262
	20–	57	71	96	111	146	243
	25–	65	83	93	113	153	150
	35–	88	86	88	111	154	101
	45–	90	84	88	106	150	76
	55–	85	85	90	102	148	41
	65–	84	88	93	100	133	20
	70 and over	108	101	93	89	131	10
Chronic interstitial pneumonia	45–	86	62	133	90	105	348
	55–	57	74	126	102	71	43
	65–	44	89	126	82	89	46
	70 and over	161	76	129	116	34	8
Other diseases of respiratory system ...	20–	44	94	88	106	150	209
	25–	82	102	86	118	127	353
	35–	70	100	90	120	150	110
	45–	81	100	90	100	124	114
	55–	76	93	100	98	120	46
	65–	93	97	103	103	95	21
	70 and over	101	107	94	97	106	11
Diseases of digestive system	16–	112	94	118	100	118	245
	20–	125	95	95	105	110	170
	25–	86	109	86	100	114	198
	35–	120	118	90	103	125	142
	45–	132	129	84	95	106	112
	55–	139	128	91	84	95	65
	65–	128	123	96	84	90	35
	70 and over	110	113	94	96	96	11
Peptic ulcer	16–	—	100	94	106	125	175
	20–	78	49	89	132	130	205
	25–	42	93	91	113	131	81
	35–	66	76	100	104	140	96
	45–	83	105	89	102	124	62
	55–	134	106	99	88	102	83
	65–	156	111	99	93	86	59
	70 and over	179	118	90	94	75	25
Ulcer of stomach ...	25–	17	80	93	132	132	66
	35–	45	71	105	107	134	106
	45–	71	100	93	107	143	52
	55–	122	100	100	94	106	55
	65–	133	95	100	100	105	25
	70 and over	148	105	100	105	81	24
Ulcer of duodenum ...	25–	84	116	92	88	136	108
	35–	105	85	91	100	153	78
	45–	113	123	89	100	96	80
	55–	161	119	96	81	93	137
	65–	197	145	96	84	52	121
	70 and over	261	148	74	70	67	30
Appendicitis	16–	148	83	112	84	105	210
	20–	95	135	103	75	92	85
	25–	111	138	92	89	84	116
	35–	173	143	96	78	61	49
	45–	202	149	81	88	70	95
	55–	233	142	83	83	58	60
	65–	354	100	85	100	85	41
	70 and over	169	131	92	62	54	19
Hernia	45–	29	69	102	110	140	100
	55–	55	91	100	109	118	16
	65–	75	96	104	79	121	5
	70 and over	48	101	94	119	106	9
Intestinal obstruction	16–	—	112	88	120	88	128
	20–	179	83	96	104	113	200
	25–	133	81	95	114	105	348
	35–	41	114	83	103	159	186
	45–	171	103	85	105	110	92
	55–	107	114	86	100	100	64
	65–	104	125	96	83	92	83
	70 and over	128	117	94	83	100	10
Cirrhosis of liver ...	35–	207	207	50	83	95	155
	45–	167	193	67	80	80	160
	55–	148	177	71	61	87	77
	65–	110	164	83	67	81	31
	70 and over	124	137	84	82	95	12
Other diseases of digestive system ...	16–	67	64	92	108	133	308
	20–	191	78	91	107	140	289
	25–	81	106	87	94	158	346
	35–	129	116	89	94	112	231
	45–	138	114	90	90	110	148
	55–	139	115	100	85	98	59
	65–	112	117	103	88	87	22
	70 and over	109	109	95	96	97	8
Acute nephritis ...	16–	—	39	117	106	94	272
	20–	56	68	108	120	84	40
	25–	95	82	100	95	136	82
	35–	18	109	100	82	141	159
	45–	57	119	104	81	96	19
	55–	92	109	106	85	91	46
	65–	75	129	80	100	106	39
	70 and over	157	113	81	92	118	4
Chronic nephritis ...	16–	87	60	93	107	123	467
	20–	27	87	96	113	121	269
	25–	31	93	100	110	100	169
	35–	106	106	94	106	124	182
	45–	104	118	91	87	109	104
	55–	106	115	99	83	98	69
	65–	133	120	94	85	97	24
	70 and over	113	120	94	81	99	12
Diseases of the prostate	45–	150	113	106	106	69	131
	55–	110	124	105	76	95	57
	65–	133	131	99	81	74	33
	70 and over	145	130	89	83	80	11
Other diseases of genito-urinary system	35–	104	93	82	98	173	267
	45–	94	93	86	116	131	93
	55–	97	99	92	95	127	56
	65–	106	103	93	99	110	40
	70 and over	119	119	89	91	99	12
Old age	55–	27	55	91	82	200	33
	65–	36	56	109	104	150	28
	70 and over	54	89	99	114	122	7
Suicide	16–	—	113	103	90	103	190
	20–	63	149	93	90	90	206
	25–	140	116	89	102	105	221
	35–	140	135	90	80	100	215
	45–	106	135	85	82	94	162
	55–	106	113	98	96	96	71
	65–	84	98	105	96	102	14
	70 and over	77	82	107	102	130	15
Accident	16–	114	56	86	131	106	128
	20–	136	61	94	125	103	117
	25–	82	67	100	127	109	212
	35–	95	72	95	128	126	267
	45–	74	74	92	126	126	264
	55–	49	71	93	137	125	86
	65–	76	67	94	130	127	34
	70 and over	75	84	101	108	128	14

TABLE H.—MORTALITY OF LEGITIMATE INFANTS CLASSIFIED BY FATHER'S OCCUPATION, 1921.

NOTE.—Of the two lines of figures against each occupation the first refers to the number of deaths registered; the second—printed in italics—to the rate of infant mortality per 1,000 births. The numbers after the titles of the several diseases refer to the Detailed International List of Causes of Death as adapted for use in England and Wales.

Occupation Code Number.	Occupation.	Number of Births.			Deaths and Total Infant Mortality.			Ages at Death (Both Sexes).				Causes of Death (Both Sexes).															Occupation Code Number.
		Males.	Females.	Total.	Males.	Females.	Both Sexes.	Under 4 weeks.	4 weeks–3 months.	3–6 months.	6–12 months.	Common Infectious Diseases (6–10, 25 : 2).	Tuberculous Diseases (31–37).	Diarrhœa and Enteritis (113).	Developmental and Wasting Diseases (159,160,161:1,162:2)	Other Causes.	Syphilis (38).	Rickets (56).	Convulsions (80).	Bronchitis (99).	Pneumonia (100, 101).	Congenital Malformations (159)	Congenital Debility and Sclerema (160 : 1).	Premature Birth (161 : 1).	Injury at Birth (161 : 2).	Suffocation in bed or not stated how (180 pt.).	
		(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*	*(16)*	*(17)*	*(18)*	*(19)*	*(20)*	*(21)*	*(22)*		*(24)*	*(25)*	
—	Total Legitimate Infants	415,241	394,955	810,196	36,978 *89*	27,157 *69*	64,135 *79*	27,464 *33·9*	11,354 *14·0*	10,708 *13·2*	14,609 *18·0*	2,915 *3·6*	1,208 *1·5*	10,608 *13·1*	25,788 *31·8*	23,616 *29·2*	868 *1·1*	175 *0·2*	3,984 *4·9*	4,227 *5·2*	7,426 *9·2*	3,207 *4·0*	5,514 *6·8*	15,225 *18·8*	1,087 *1·3*	434 *0·5*	—
—	Social Class I (Upper and Middle)	6,385	6,019	12,404	286 *45*	190 *32*	476 *38*	290 *23·4*	61 *4·9*	53 *4·3*	72 *5·8*	10 *0·8*	7 *0·6*	52 *4·2*	251 *20·2*	156 *12·6*	3 *0·2*	1 *0·1*	33 *2·7*	9 *0·7*	32 *2·6*	48 *3·9*	29 *2·3*	147 *11·9*	22 *1·8*	3 *0·2*	—
—	Social Class II (Intermediate)	61,625	58,681	120,306	3,866 *63*	2,799 *48*	6,665 *55*	3,400 *28·3*	1,142 *9·5*	971 *8·1*	1,152 *9·6*	246 *2·0*	122 *1·0*	928 *7·7*	3,091 *25·7*	2,278 *18·9*	60 *0·5*	16 *0·1*	375 *3·1*	335 *2·8*	584 *4·9*	460 *3·8*	545 *4·5*	1,836 *15·3*	188 *1·6*	38 *0·3*	—
—	Social Class III (Skilled Workers)	187,716	177,621	365,337	16,350 *87*	11,727 *66*	28,077 *77*	12,302 *33·7*	4,947 *13·5*	4,530 *12·4*	6,298 *17·2*	1,256 *3·4*	508 *1·4*	4,512 *12·4*	11,419 *31·3*	10,382 *28·4*	367 *1·0*	71 *0·2*	1,809 *5·0*	1,869 *5·1*	3,262 *8·9*	1,446 *4·0*	2,392 *6·5*	6,767 *18·5*	475 *1·3*	178 *0·5*	—
—	Social Class IV (Intermediate)	94,491	89,867	184,358	9,401 *99*	7,082 *79*	16,483 *89*	6,762 *36·7*	2,920 *15·8*	2,870 *15·6*	3,931 *21·3*	790 *4·3*	347 *1·9*	2,735 *14·8*	6,387 *34·6*	6,224 *33·8*	237 *1·3*	46 *0·2*	1,056 *5·7*	1,193 *6·5*	1,955 *10·6*	744 *4·0*	1,443 *7·8*	3,780 *20·5*	256 *1·4*	107 *0·6*	—
—	Social Class V (Unskilled Workers)	62,494	60,446	122,940	6,798 *109*	5,137 *85*	11,935 *97*	4,536 *36·9*	2,193 *17·8*	2,182 *17·7*	3,024 *24·6*	592 *4·8*	203 *1·7*	2,280 *18·5*	4,452 *36·2*	4,408 *35·9*	189 *1·5*	40 *0·3*	685 *5·6*	797 *6·5*	1,529 *12·4*	490 *4·0*	1,047 *8·5*	2,593 *21·1*	141 *1·1*	106 *0·9*	—
000	Fishermen	1,430	1,363	2,793	164 *115*	112 *82*	276 *99*	104 *37·2*	60 *21·5*	50 *17·9*	62 *22·2*	8 *2·9*	12 *4·3*	46 *16·5*	103 *36·9*	107 *38·3*	8 *2·9*	2 *0·7*	21 *7·5*	17 *6·1*	31 *11·1*	13 *4·7*	20 *7·2*	60 *21·5*	6 *2·1*	1 *0·4*	000
011, 012	Farmers and their Relatives	8,814	8,453	17,267	521 *59*	362 *43*	883 *51*	512 *29·7*	150 *8·7*	109 *6·3*	112 *6·5*	25 *1·4*	12 *0·7*	72 *4·2*	455 *26·4*	319 *18·5*	1 *0·1*	2 *0·1*	68 *3·9*	47 *2·7*	84 *4·9*	80 *4·6*	76 *4·4*	265 *15·3*	31 *1·8*	2 *0·1*	011,012
013	Gardeners	3,994	3,817	7,811	234 *59*	183 *48*	417 *53*	225 *28·8*	66 *8·4*	53 *6·8*	73 *9·3*	15 *1·9*	6 *0·8*	50 *6·4*	210 *26·9*	136 *17·4*	5 *0·6*	1 *0·1*	27 *3·5*	16 *2·0*	39 *5·0*	25 *3·2*	48 *6·1*	123 *15·7*	9 *1·2*	3 *0·4*	013
020–4	Agricultural Labourers, etc.	14,818	13,842	28,660	1,130 *76*	807 *58*	1,937 *68*	979 *34·2*	353 *12·3*	270 *9·4*	335 *11·7*	81 *2·8*	39 *1·4*	201 *7·0*	926 *32·3*	690 *24·1*	15 *0·5*	7 *0·2*	128 *4·5*	143 *5·0*	152 *5·3*	128 *4·5*	202 *7·0*	538 *18·8*	45 *1·6*	17 *0·6*	020–4
042	Coal Mine—Hewers and Getters	32,311	30,696	63,007	3,754 *116*	2,735 *89*	6,489 *103*	2,583 *41·0*	1,153 *18·3*	1,125 *17·9*	1,628 *25·8*	298 *4·7*	97 *1·5*	1,075 *17·1*	2,425 *38·5*	2,594 *41·2*	70 *1·1*	22 *0·0*	520 *8·3*	551 *8·7*	810 *12·9*	257 *4·1*	608 *9·6*	1,399 *22·2*	86 *1·4*	28 *0·0*	042
043–7	Coal Mine — Other Underground Workers	12,916	12,356	25,272	1,581 *122*	1,191 *96*	2,772 *110*	1,100 *43·5*	486 *19·2*	528 *20·9*	658 *26·0*	139 *5·5*	42 *1·7*	448 *17·7*	1,034 *40·9*	1,109 *43·9*	28 *1·1*	8 *0·3*	229 *9·1*	253 *10·0*	343 *13·6*	111 *4·4*	254 *10·1*	602 *23·8*	33 *1·3*	11 *0·4*	043–7
049	Coal Mine—Above Ground Workers	3,637	3,420	7,057	402 *111*	311 *91*	713 *101*	289 *41·0*	117 *16·6*	123 *17·4*	184 *26·1*	32 *4·5*	11 *1·6*	117 *16·6*	262 *37·1*	291 *41·2*	4 *0·6*	5 *0·7*	67 *9·5*	62 *8·8*	85 *12·0*	21 *3·0*	65 *9·2*	155 *22·0*	9 *1·3*	3 *0·4*	049
054	Metalliferous Mine—Underground Workers	887	919	1,806	105 *118*	74 *81*	179 *99*	75 *41·5*	25 *13·8*	28 *15·5*	51 *28·2*	15 *8·3*	3 *1·7*	20 *11·1*	64 *35·4*	77 *42·6*	4 *2·2*	— —	13 *7·2*	11 *6·1*	28 *15·5*	7 *3·9*	14 *7·8*	39 *21·6*	3 *1·7*	2 *1·1*	054
072	Stone Quarriers	924	936	1,860	88 *95*	72 *77*	160 *86*	75 *40·3*	17 *9·1*	33 *17·7*	35 *18·8*	5 *2·7*	8 *4·3*	15 *8·1*	65 *34·9*	67 *36·0*	2 *1·1*	— —	15 *8·1*	6 *3·2*	19 *10·2*	10 *5·4*	16 *8·6*	34 *18·3*	4 *2·2*	1 *0·5*	072
109, 110	Brick, Tile, and Pottery Kiln and Oven Men	522	467	989	66 *126*	42 *90*	108 *109*	36 *36·4*	27 *27·3*	24 *24·3*	21 *21·2*	1 *1·0*	3 *3·0*	36 *36·4*	29 *29·3*	39 *39·4*	1 *1·0*	— —	9 *9·1*	10 *10·1*	8 *8·1*	4 *4·0*	8 *8·1*	17 *17·2*	1 *1·0*	1 *1·0*	109, 110
119	Unskilled Brick, Tile, and Pottery Workers	881	857	1,738	112 *127*	76 *89*	188 *108*	72 *41·4*	33 *19·0*	31 *17·8*	52 *29·9*	5 *2·9*	3 *1·7*	41 *23·6*	68 *39·1*	71 *40·9*	5 *2·9*	1 *0·6*	10 *5·8*	15 *8·6*	15 *8·6*	6 *3·5*	14 *8·1*	48 *27·6*	2 *1·2*	3 *1·7*	119
122–5	Skilled Glass House Workers	719	661	1,380	68 *95*	48 *73*	116 *84*	49 *35·5*	18 *13·0*	17 *12·3*	32 *23·2*	4 *2·9*	— —	13 *9·4*	44 *31·9*	55 *39·9*	5 *3·6*	— —	8 *5·8*	10 *7·2*	16 *11·6*	9 *6·5*	7 *5·1*	21 *15·2*	4 *2·9*	— —	122–5
149	Unskilled Chemical Workers	761	728	1,489	78 *102*	64 *88*	142 *95*	52 *34·9*	27 *18·1*	22 *14·8*	41 *27·5*	13 *8·7*	4 *2·7*	16 *10·7*	47 *31·6*	62 *41·6*	4 *2·7*	— —	12 *8·1*	15 *10·1*	18 *12·1*	4 *2·7*	12 *8·1*	26 *17·5*	3 *2·0*	2 *1·3*	149
159	Unskilled Workers in Grease, Oil, Paints, Soap, etc.	691	634	1,325	73 *106*	63 *99*	136 *103*	57 *43·0*	14 *10·6*	28 *21·1*	37 *27·9*	2 *1·5*	1 *0·8*	33 *24·9*	48 *36·2*	52 *39·2*	3 *2·3*	1 *0·8*	11 *8·3*	9 *6·8*	19 *14·3*	5 *3·8*	12 *9·1*	27 *20·4*	1 *0·8*	1 *0·8*	159
170–8	Skilled Metal Furnacemen, Puddlers, Converters, and Rollers	2,500	2,422	4,922	226 *90*	177 *73*	403 *82*	154 *31·3*	69 *14·0*	71 *14·4*	109 *22·1*	26 *5·3*	12 *2·4*	68 *13·8*	141 *28·6*	156 *31·7*	4 *0·8*	2 *0·4*	29 *5·9*	32 *6·5*	47 *9·5*	16 *3·3*	28 *5·7*	85 *17·3*	8 *1·6*	5 *1·0*	170–8
180	Metal Moulders	3,465	3,453	6,918	332 *96*	238 *69*	570 *82*	244 *35·3*	97 *14·0*	93 *13·4*	136 *19·7*	23 *3·3*	8 *1·2*	97 *14·0*	228 *33·0*	214 *30·9*	8 *1·2*	— —	47 *6·8*	38 *5·5*	70 *10·1*	35 *5·1*	52 *7·5*	124 *17·9*	10 *1·4*	4 *0·6*	180
182–3	Iron Foundry Furnacemen and Labourers	1,733	1,648	3,381	223 *129*	201 *122*	424 *125*	152 *45·0*	75 *22·2*	83 *24·5*	114 *33·7*	20 *5·9*	11 *3·3*	75 *22·2*	144 *42·6*	174 *51·5*	10 *3·0*	— —	26 *7·7*	43 *12·7*	48 *14·2*	19 *5·6*	36 *10·6*	83 *24·5*	4 *1·2*	4 *1·2*	182–3
190	Smiths	4,659	4,464	9,123	430 *92*	312 *70*	742 *81*	312 *34·2*	146 *16·0*	117 *12·8*	167 *18·3*	34 *3·7*	15 *1·6*	116 *12·7*	303 *33·2*	274 *30·0*	13 *1·4*	5 *0·5*	46 *5·0*	51 *5·6*	94 *10·3*	39 *4·3*	61 *6·7*	188 *20·6*	1 *0·1*	4 *0·4*	190
200	Machine Tool Workers	5,197	4,889	10,086	406 *78*	340 *70*	746 *74*	328 *32·5*	126 *12·5*	120 *11·9*	172 *17·1*	37 *3·7*	14 *1·4*	123 *12·2*	308 *30·5*	264 *26·2*	10 *1·0*	— —	33 *3·3*	51 *5·1*	84 *8·3*	44 *4·4*	56 *5·6*	183 *18·1*	12 *1·2*	5 *0·5*	200
210–2, 244, 245, 248, 265	Fitters and similar Occupations	13,970	13,103	27,073	1,008 *72*	739 *56*	1,747 *65*	862 *31·8*	312 *11·5*	257 *9·5*	316 *11·7*	69 *2·5*	25 *0·9*	253 *9·3*	798 *29·5*	602 *22·2*	19 *0·7*	1 *0·0*	91 *3·4*	101 *3·7*	195 *7·2*	121 *4·5*	131 *4·8*	501 *18·5*	33 *1·2*	16 *0·6*	210–2, 244, 245, 248, 265
222, 255	Boiler Makers, Platers, and Rivetters	3,565	3,246	6,811	310 *87*	241 *74*	551 *81*	199 *29·2*	109 *16·0*	97 *14·2*	146 *21·4*	27 *4·0*	13 *1·9*	84 *12·3*	201 *29·5*	226 *33·2*	11 *1·6*	1 *0·1*	36 *5·3*	65 *9·5*	78 *11·5*	21 *3·1*	52 *7·6*	116 *17·0*	3 *0·4*	3 *0·4*	222, 255

237, 238	Metal Grinders, Glazers, Polishers, etc.	1,291	1,249	2,540	127	101	228	96	38	44	50	15	7	33	94	79	5	—	9	14	27	8	24	58	3	3	237, 238
					98	81	90	37·8	15·0	17·3	19·7	5·9	2·8	13·0	37·0	31·1	2·0	—	3·5	5·5	10·6	3·1	9·4	22·8	1·2	1·2	
264	Sheet Metal Workers	1,221	1,079	2,300	104	61	165	56	34	33	42	14	5	27	57	62	5	—	9	9	21	6	10	38	4	—	264
					85	57	72	24·3	14·8	14·3	18·3	6·1	2·2	11·7	24·8	27·0	2·2	—	3·9	3·9	9·1	2·6	4·3	16·5	1·7	—	
281–298	Skilled Workers in Precious Metals and Plate	841	840	1,681	72	54	126	58	18	15	35	7	2	19	48	50	4	—	7	7	20	5	9	28	—	1	281–298
					86	64	75	34·5	10·7	8·9	20·8	4·2	1·2	11·3	28·6	29·7	2·4	—	4·2	4·2	11·9	3·0	5·4	16·7	—	0·6	
305–7, 311	Electrical Engineers, Fitters, and Wiremen	3,716	3,410	7,126	258	219	477	240	96	70	71	16	6	69	224	162	3	—	25	25	42	23	37	144	16	1	305–7, 311
					69	64	67	33·7	13·5	9·8	10·0	2·2	0·8	9·7	31·4	22·7	0·4	—	3·5	3·5	5·9	3·2	5·2	20·2	2·2	0·1	
350–399	Textile Workers	9,050	8,522	17,572	879	625	1,504	678	275	211	340	66	25	166	608	639	25	3	106	116	199	96	119	339	34	12	350–399
					97	73	86	38·6	15·6	12·0	19·3	3·8	1·4	9·4	34·6	36·4	1·4	0·2	6·0	6·6	11·3	5·5	6·8	19·3	1·9	0·7	
351–9	Textile Foremen	829	781	1,610	60	59	119	48	24	20	27	5	2	12	43	57	2	1	6	10	19	10	9	20	3	1	351–9
					72	76	74	29·8	14·9	12·4	16·8	3·1	1·2	7·5	26·7	35·4	1·2	0·6	3·7	6·2	11·8	6·2	5·6	12·4	1·9	0·6	
362–3	Breakers, Hecklers, Card, etc., Frame Tenters	599	598	1,197	65	55	120	43	26	19	32	9	1	11	47	52	1	1	15	4	22	14	6	25	—	2	362–3
					109	92	100	35·9	21·7	15·9	26·7	7·5	0·8	9·2	39·3	43·4	0·8	0·8	12·5	·3	18·4	11·7	5·0	20·9	—	1·7	
365	Spinners and Piecers	1,433	1,368	2,801	154	98	252	133	33	42	44	12	3	24	109	104	6	—	23	19	29	9	17	72	4	1	365
					107	72	90	47·5	11·8	15·0	15·7	4·3	1·1	8·6	38·9	37·1	2·1	—	8·2	6·8	10·4	3·2	6·1	25·7	1·4	0·4	
70	Weavers	1,440	1,339	2,779	123	94	217	102	42	24	49	16	4	24	98	75	1	—	7	17	33	16	19	56	3	—	370
					85	70	78	36·7	15·1	8·6	17·6	5·8	1·4	8·6	35·3	27·0	0·4	—	2·5	6·1	11·9	5·8	6·8	20·2	1·1	—	
381	Dye Mixers and Dyers	07	685	1,492	80	54	134	61	23	23	27	3	4	14	58	55	1	—	10	10	20	8	8	35	3	—	381
					99	79	90	40·9	15·4	15·4	18·1	2·0	2·7	9·4	38·9	36·9	0·7	—	6·7	6·7	13·4	5·4	5·4	23·5	2·0	—	
384	Scourers (Woollen, Worsted and Hosiery), Calenderers, and Finishers	642	636	1,278	81	53	134	53	25	17	39	3	6	17	54	54	2	—	7	9	22	5	17	26	2	3	384
					126	83	105	41·5	19·6	13·3	30·5	2·3	4·7	13·3	42·3	42·3	1·6	—	5·5	7·0	17·2	3·9	13·3	20·3	1·6	2·3	
399	Unskilled Textile Workers	839	798	1,637	111	69	180	66	45	26	43	8	1	21	58	92	4	—	11	26	22	6	17	33	6	2	399
					132	86	110	40·3	27·5	15·9	26·3	4·9	0·6	12·8	35·4	56·2	2·4	—	6·7	15·9	13·4	3·7	10·4	20·2	3·7	1·2	
404	Tailors	2,008	1,853	3,861	189	100	289	125	53	54	57	16	4	56	107	106	4	2	16	12	32	10	26	58	10	2	404
					94	54	75	32·4	13·7	14·0	14·8	4·1	1·0	14·5	27·7	27·5	1·0	0·5	4·1	3·1	8·3	2·6	6·7	15·0	2·6	0·5	
412–4	Boot and Shoe Makers	3,221	3,003	6,224	304	199	503	207	77	91	128	29	12	74	212	176	6	1	24	31	64	18	48	133	8	5	412–4
					94	66	81	33·3	12·4	14·6	20·6	4·7	1·9	11·9	34·1	28·3	1·0	0·2	3·9	5·0	10·3	2·9	7·7	21·4	1·3	0·8	
433	Bakers	1,970	1,871	3,841	169	115	284	128	53	43	60	10	10	47	113	104	6	1	22	13	29	15	20	68	4	3	433
					86	61	74	33·3	13·8	11·2	15·6	2·6	2·6	12·2	29·4	27·1	1·6	0·3	5·7	3·4	7·6	3·9	5·2	17·7	1·0	0·8	
473–7, 480, 482	Carpenters and similar Occupations	9,020	8,304	17,324	653	463	1,116	535	197	162	222	50	19	170	510	367	10	2	64	60	103	74	105	298	24	14	473–7, 480, 482
					72	56	64	30·9	11·4	9·4	12·8	2·9	1·1	9·8	29·4	21·2	0·6	0·1	3·7	3·5	5·9	4·3	6·1	17·2	1·4	0·8	
481, 486	Sawyers; Wood Turners and Machinists	1,699	1,576	3,275	151	99	250	92	52	46	60	9	7	56	85	93	4	2	12	20	24	6	22	55	5	1	481, 486
					89	63	76	28·1	15·9	14·0	18·3	2·7	2·1	17·1	26·0	28·4	1·2	0·6	3·7	6·1	7·3	1·8	6·7	16·8	1·5	0·3	
522–3, 529, 531	Compositors, Printers, and Machine Minders	1,876	1,768	3,644	138	76	214	106	29	28	51	4	4	34	101	71	3	—	8	8	19	16	17	62	4	3	522–3, 529, 531
					74	43	59	29·1	8·0	7·7	14·0	1·1	1·1	9·3	27·7	19·5	0·8	—	2·2	2·2	5·2	4·4	4·7	17·0	1·1	0·8	
560, 562, 563, 590	Employers and Managers (Building, Bricklaying, etc.)	1,742	1,684	3,426	101	88	189	98	29	27	35	7	5	26	82	69	—	—	12	9	17	10	19	46	8	2	560, 562, 563, 590
					58	52	55	28·6	8·5	7·9	10·2	2·0	1·5	7·6	23·9	20·1	—	—	3·5	2·6	5·0	2·9	5·5	13·4	2·3	0·6	
565	Bricklayers	2,858	2,710	5,568	243	157	400	170	75	67	88	22	8	63	160	147	4	1	27	34	45	25	35	80	1	4	565
					85	58	72	30·5	13·5	12·0	15·8	4·0	1·4	11·3	28·7	26·4	0·7	0·2	4·8	6·1	8·1	4·5	6·3	14·4	0·2	0·7	
567	Plasterers	649	672	1,321	53	49	102	40	16	19	27	4	1	24	39	34	1	—	5	8	12	1	13	21	2	—	567
					82	73	77	30·3	12·1	14·4	20·4	3·0	0·8	18·2	29·5	25·7	0·8	—	3·8	6·1	9·1	0·8	9·8	15·9	1·5	—	
572, 574, 575	Masons and Stone Cutters and Dressers	1,020	984	2,004	81	67	148	66	28	31	23	5	5	23	61	54	2	—	11	12	11	9	10	38	2	—	572,574,575
					79	68	74	32·9	14·0	15·5	11·5	2·5	2·5	11·5	30·4	26·9	1·0	—	5·5	6·0	5·5	4·5	5·0	19·0	1·0	—	
577	Platelayers	2,448	2,330	4,778	214	141	355	159	55	60	81	15	7	55	146	132	3	—	25	28	37	11	28	101	8	1	577
					87	61	74	33·3	11·5	12·6	17·0	3·1	1·5	11·5	30·6	27·6	0·6	—	5·2	5·9	7·7	2·3	5·9	21·1	1·7	0·2	
581	Contractors' Labourers; Navvies	2,740	2,682	5,422	273	221	494	211	87	88	108	20	6	77	190	201	12	2	36	36	56	17	47	119	6	3	581
					100	82	91	38·9	16·0	16·2	19·9	3·7	1·1	14·2	35·0	37·1	2·2	0·4	6·6	6·6	10·3	3·1	8·7	21·9	1·1	0·6	
592–3	Painters and Decorators	6,090	5,765	11,855	553	358	911	363	162	136	250	46	23	163	366	313	14	2	43	61	117	47	70	209	13	6	592–3
					91	62	77	30·6	13·7	11·5	21·1	3·9	1·9	13·7	30·9	26·4	1·2	0·2	3·6	5·1	9·9	4·0	5·9	17·6	1·1	0·5	
564, 566, 568,573,599	Building Trades Labourers	8,172	7,710	15,882	847	630	1,477	567	285	254	371	73	21	262	551	570	21	2	86	100	202	67	119	326	23	18	564, 566, 568,573,599
					104	82	93	35·7	17·9	16·0	23·4	4·6	1·3	16·5	34·7	35·9	1·3	0·1	5·4	6·3	12·7	4·2	7·5	20·5	1·4	1·1	
669	Shipyard Labourers etc.	1,112	1,062	2,174	146	111	257	100	35	49	73	20	3	42	91	101	2	2	15	26	33	6	17	64	2	6	669
					131	105	118	46·0	16·1	22·5	33·6	9·2	1·4	19·3	41·9	46·5	0·9	0·9	6·9	12·0	15·2	2·8	7·8	29·4	0·9	2·8	
693	Gas Stokers	724	761	1,485	72	59	131	54	30	18	29	7	3	14	54	53	1	—	8	11	14	7	12	33	3	1	693
					99	78	88	36·4	20·2	12·1	19·5	4·7	2·0	9·4	36·4	35·7	0·7	—	5·4	7·4	9·4	4·7	8·1	22·2	2·0	0·7	
701	Locomotive Engine Drivers, Firemen, Cleaners	4,066	3,752	7,818	334	227	561	266	107	91	97	23	12	84	247	195	5	1	48	28	54	36	45	153	10	3	701
					82	61	72	34·0	13·7	11·6	12·4	2·9	1·5	10·7	31·6	24·9	0·6	0·1	6·1	3·6	6·9	4·6	5·8	19·6	1·3	0·4	
702–5	Railway Guards, Signalmen, Shunters, Ticket Collectors	3,772	3,630	7,402	316	221	537	250	88	82	117	21	10	71	224	211	6	3	42	48	61	23	42	144	6	2	702–5
					84	61	73	33·8	11·9	11·1	15·8	2·8	1·4	9·6	30·3	28·5	0·8	0·4	5·7	6·5	8·2	3·1	5·7	19·5	0·8	0·3	
706	Railway Porters	3,854	3,551	7,405	348	253	601	255	115	95	136	27	8	114	250	202	5	3	31	34	63	30	47	157	11	3	706
					90	71	81	34·4	15·5	12·8	18·4	3·6	1·1	15·4	33·8	27·3	0·7	0·4	4·2	4·6	8·5	4·1	6·3	21·2	1·5	0·4	
709	Other Railway Transport Workers	637	591	1,228	64	56	120	47	19	19	35	3	5	12	49	51	5	—	6	8	20	5	8	32	1	—	709
					100	95	98	38·3	15·5	15·5	28·5	2·4	4·1	9·8	39·9	41·5	4·1	—	4·9	6·5	16·3	4·1	6·5	26·1	0·8	—	
711–3	Livery Stable and Motor Garage Proprietors; Haulage Contractors	1,286	1,211	2,497	80	61	141	61	26	31	23	6	3	19	53	60	2	—	10	10	15	11	7	31	1	1	711–3
					62	50	56	24·4	10·4	12·4	9·2	2·4	1·2	7·6	21·2	24·0	0·8	—	4·0	4·0	6·0	4·4	2·8	12·4	0·4	0·4	
718–9	Drivers of Horse-Drawn Vehicles	9,740	9,195	18,935	1,106	815	1,921	690	356	367	508	105	44	392	675	705	26	4	114	120	254	74	185	372	29	14	718–9
					114	89	101	36·4	18·8	19·4	26·8	55	23	20·7	35·6	37·2	1·4	0·2	6·0	6·3	13·4	3·9	9·8	19·6	1·5	0·7	
720–1	Drivers of Motor Vehicles and Steam Wagons	8,300	7,916	16,216	666	470	1,136	516	217	185	218	53	17	189	470	407	26	4	58	63	131	44	97	287	19	8	720–1
					80	59	70	31·8	13·4	11·4	13·4	3·3	1·0	11·7	29·0	25·1	1·6	0·2	3·6	3·9	8·1	2·7	6·0	17·7	1·2	0·5	
722	Tram Drivers	1,141	1,112	2,253	101	69	170	76	26	29	39	12	3	24	65	66	2	—	12	8	19	10	9	39	6	—	722
					89	62	75	33·7	11·5	12·9	17·3	5·3	1·3	10·7	28·9	29·3	0·9	—	5·3	3·6	8·4	4·4	4·0	17·3	2·7	—	
724	Omnibus and Tram Conductors	1,841	1,759	3,600	164	114	278	128	43	56	51	9	5	44	117	103	7	—	17	17	35	13	25	71	4	—	724
					89	65	77	35·6	11·9	15·6	14·2	2·5	1·4	12·2	32·5	28·6	1·9	—	4·7	4·7	9·7	3·6	6·9	19·7	1·1	—	
725	Grooms and Horsekeepers	1,183	1,044	2,227	83	78	161	87	19	20	35	8	6	20	78	49	—	—	9	4	18	5	18	50	5	—	725
					70	75	72	39·1	8·5	9·0	15·7	3·6	2·7	9·0	35·0	22·0	—	—	4·0	1·8	8·1	2·2	8·1	22·5	2·2	—	
733–4	Navigating and Engineering Officers	1,609	1,497	3,106	128	97	225	92	41	41	51	12	4	36	90	83	4	1	9	17	26	11	22	48	3	1	733–4
					80	65	72	29·6	13·2	13·2	16·4	3·9	1·3	11·6	29·0	26·7	1·3	0·3	2·9	5·5	8·4	3·5	7·1	15·5	1·0	0·3	
735	Seamen and Deck Hands	1,743	1,636	3,379	181	147	328	119	72	57	80	15	7	72	111	123	11	—	27	18	36	9	30	67	4	3	735
					104	90	97	35·2	21·3	16·9	23·7	4·4	2·1	21·3	32·9	36·4	3·3	—	8·0	5·3	10·7	2·7	8·9	19·8	1·2	0·9	
736	Firemen, Greasers, Trimmers	1,573	1,629	3,202	192	176	368	118	64	73	113	19	14	73	115	147	8	—	27	22	55	9	24	69	1	4	736
					122	108	115	36·9	20·0	22·8	35·3	5·9	4·4	22·8	35·9	45·9	2·5	—	8·4	6·9	17·2	2·8	7·5	21·5	0·3	1·2	

TABLE H.—Mortality of Legitimate Infants Classified by Father's Occupation, 1921—*continued.*

Occupation Code Number.	Occupation.	Number of Births.			Total Infant Mortality.			Ages at Death (Both Sexes).				Causes of Death (Both Sexes).															Occupation Code Number.
		Males.	Females.	Total.	Males.	Females.	Both Sexes.	Under 4 weeks.	4 weeks–3 months.	3–6 months.	6–12 months.	Common Infectious Diseases (6–10, 25 : 2).	Tuberculous Diseases (31–37).	Diarrhœa and Enteritis (113).	Developmental and Wasting Diseases (159,160,161:1,162:2)	Other Causes.	Syphilis (38).	Rickets (56).	Convulsions (80).	Bronchitis (99).	Pneumonia (100, 101).	Congenital Malformations (159).	Congenital Debility and Sclerema (160 : 1).	Premature Birth (161 : 1).	Injury at Birth (161 : 2).	Suffocation in bed or not stated how (180 pt.).	
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	
737	Pursers, Stewards, etc.	1,124	1,138	2,262	85	91	176	80	29	31	36	5	1	39	81	50	5	—	5	9	14	14	20	41	3	1	737
					76	80	78	35·4	12·8	13·7	15·9	2·2	0·4	17·2	35·8	22·1	2·2	—	2·2	4·0	6·2	6·2	8·8	18·1	1·3	0·4	
738	Bargemen	1,106	1,047	2,153	116	90	206	80	33	34	59	9	4	46	78	69	2	—	6	11	26	8	20	46	3	3	738
					105	86	96	37·2	15·3	15·8	27·4	4·2	1·9	21·4	36·2	32·0	0·9	—	2·8	5·1	12·1	3·7	9·3	21·4	1·4	1·4	
744–5	Dock Labourers	5,389	5,263	10,652	663	500	1,163	405	182	231	345	64	23	252	414	410	16	3	49	75	177	44	105	228	8	6	744–5
					123	95	109	38·0	17·1	21·7	32·4	6·0	2·2	23·7	38·9	38·5	1·5	0·3	4·6	7·0	16·6	4·1	9·9	21·4	0·8	0·6	
753–6	Postmen, Post Office Sorters, Telegraph and Telephone Operators	2,993	2,877	5,870	228	155	383	182	62	66	73	17	6	64	164	132	2	—	22	24	40	25	20	109	7	5	753–6
					76	54	65	31·0	10·6	11·2	12·4	2·9	1·0	10·9	27·9	22·5	0·3	—	3·7	4·1	6·8	4·3	3·4	18·6	1·2	0·9	
759	Porters	2,233	2,194	4,427	240	175	415	139	74	81	121	18	5	95	148	149	4	1	10	20	71	15	33	92	5	5	759
					107	80	94	31·4	16·7	18·3	27·3	4·1	1·1	21·5	33·4	33·7	0·9	0·2	2·3	4·5	16·0	3·4	7·5	20·8	1·1	1·1	
770	Proprietors and Managers of Dealing Businesses	13,979	13,300	27,279	1,021	700	1,721	820	290	285	326	69	32	284	743	593	22	4	96	85	174	116	106	460	34	15	770
					73	53	63	30·1	10·6	10·4	12·0	2·5	1·2	10·4	27·2	21·7	0·8	0·1	3·5	3·1	6·4	4·3	3·9	16·9	1·2	0·5	
775	Salesmen and Shop Assistants	7,006	6,456	13,462	447	318	765	390	137	108	130	31	6	129	352	247	9	5	36	31	65	52	76	201	24	3	775
					64	49	57	29·0	10·2	8·0	9·7	2·3	0·4	9·6	26·1	18·3	0·7	0·4	2·7	2·3	4·8	3·9	5·6	14·9	1·8	0·2	
776	Roundsmen and Van Salesmen	1,034	951	1,985	86	43	129	59	21	23	26	4	2	18	61	44	—	—	9	5	15	10	9	37	1	1	776
					83	45	65	29·7	10·6	11·6	13·1	2·0	1·0	9·1	30·7	22·2	—	—	4·5	2·5	7·6	5·0	4·5	18·6	0·5	0·5	
777–8	Costermongers and Hawkers	1,386	1,379	2,765	225	156	381	127	72	72	110	20	9	81	131	140	5	1	18	25	54	17	35	69	3	6	777–8
					162	113	138	45·9	26·0	26·0	39·8	7·2	3·3	29·3	47·4	50·6	1·8	0·4	6·5	9·0	19·5	6·1	12·7	25·0	1·1	2·2	
794–5	Insurance Agents and Canvassers	1,040	996	2,036	69	50	119	57	23	20	19	3	1	18	59	38	1	—	7	6	14	7	13	30	2	—	794–5
					66	50	58	28·0	11·3	9·8	9·3	1·5	0·5	8·8	29·0	18·7	0·5	—	3·4	2·9	6·9	3·4	6·4	14·7	1·0	—	
800	Civil Service Officials and Clerks	3,501	3,376	6,877	188	145	333	174	64	48	47	10	7	39	166	111	5	—	12	18	27	27	27	93	17	3	800
					54	43	48	25·3	9·3	7·0	6·8	1·5	1·0	5·7	24·1	16·1	0·7	—	1·7	2·6	3·9	3·9	3·9	13·5	2·5	0·4	
805	Local Authority Officials and Clerks	1,338	1,303	2,641	84	63	147	88	14	17	28	4	—	14	79	50	2	1	6	8	13	12	18	45	5	—	805
					63	48	56	33·3	5·3	6·4	10·6	1·5	—	5·3	29·9	18·9	0·8	0·4	2·3	3·0	4·9	4·5	6·8	17·0	1·9	—	
809	Police Sergeants and Constables	3,413	3,388	6,801	261	160	421	217	53	61	90	21	6	66	200	128	2	1	22	23	38	33	29	128	7	—	809
					76	47	62	31·9	7·8	9·0	13·2	3·1	0·9	9·7	29·4	18·8	0·3	0·1	3·2	3·4	5·6	4·9	4·3	18·8	1·0	—	
811	Petty Officers and Men of the Navy	4,106	3,852	7,958	287	178	465	211	83	74	97	13	5	97	180	170	6	1	26	21	57	19	20	129	10	3	811
					70	46	58	26·5	10·4	9·3	12·2	1·6	0·6	12·2	22·6	21·4	0·8	0·1	3·3	2·6	7·2	2·4	2·5	16·2	1·3	0·4	
813	N.C.Os. and Men of the Army	3,321	3,262	6,583	325	257	582	235	103	102	142	33	14	112	217	206	17	1	26	28	77	28	40	136	6	5	813
					98	79	88	35·7	15·6	15·5	21·6	5·0	2·1	17·0	33·0	31·3	2·6	0·2	3·9	4·3	11·7	4·3	6·1	20·7	0·9	0·8	
820, 826	Clergymen and Ministers	559	545	1,104	23	19	42	23	6	9	4	1	—	6	24	11	—	—	2	1	1	7	3	11	2	—	820, 826
					41	35	38	20·8	5·4	8·2	3·6	0·9	—	5·4	21·7	10·0	—	—	1·8	0·9	0·9	6·3	2·7	10·0	1·8	—	
830–1	Lawyers	346	435	781	8	10	18	11	3	2	2	—	1	—	11	6	—	—	3	—	1	4	—	3	—	—	830–1
					23	23	23	14·1	3·8	2·6	2·6	—	1·3	—	14·1	7·7	—	—	3·8	—	1·3	5·1	—	3·8	—	—	
840	Registered Medical Practitioners	696	620	1,316	23	15	38	25	3	6	4	—	—	4	20	14	—	—	2	—	3	2	4	9	3	—	840
					33	24	29	19·0	2·3	4·6	3·0	—	—	3·0	15·2	10·6	—	—	1·5	—	2·3	1·5	3·0	6·8	2·3	—	
841	Dentists	283	260	543	20	12	32	21	2	3	6	—	—	5	18	9	—	—	1	1	2	1	1	15	2	1	841
					71	46	59	38·7	3·7	5·5	11·0	—	—	9·2	33·1	16·6	—	—	1·8	1·8	3·7	1·8	1·8	27·6	3·7	1·8	
850–1	Teachers	1,797	1,688	3,485	87	58	145	68	27	18	32	9	5	17	67	47	2	1	6	7	14	16	12	29	5	—	850–1
					48	34	42	19·5	7·7	5·2	9·2	2·6	1·4	4·9	19·2	13·5	0·6	0·3	1·7	2·0	4·0	4·6	3·4	8·3	1·4	—	
900	Domestic Servants	992	984	1,976	92	58	150	54	32	32	32	7	6	20	53	64	2	—	15	6	23	6	13	32	3	2	900
					93	59	76	27·3	16·2	16·2	16·2	3·5	3·0	10·1	26·8	32·4	1·0	—	7·6	3·0	11·6	3·0	6·6	16·2	1·5	1·0	
914	Inn, Hotel-Keepers; Publicans	1,511	1,449	2,960	137	93	230	115	39	28	48	8	7	36	101	78	1	2	13	12	15	15	18	60	7	2	914
					91	64	78	38·9	13·2	9·5	16·2	2·7	2·4	12·2	34·1	26·4	0·3	0·7	4·4	4·1	5·1	5·1	6·1	20·3	2·4	0·7	
915	Barmen	579	522	1,101	59	35	94	37	14	27	16	6	4	22	33	29	—	—	3	5	13	2	9	22	1	—	915
					102	67	85	33·6	12·7	24·5	14·5	5·4	3·6	20·0	30·0	26·3	—	—	2·7	4·5	11·8	1·8	8·2	20·0	0·9	—	
916	Waiters	467	457	924	44	36	80	34	18	10	18	3	3	18	28	28	2	—	5	4	7	2	10	12	2	1	916
					94	79	87	36·8	19·5	10·8	19·5	3·2	3·2	19·5	30·3	30·3	2·2	—	5·4	4·3	7·6	2·2	10·8	13·0	2·2	1·1	
920	Hairdressers	1,128	1,029	2,157	99	60	159	76	22	28	33	6	3	31	67	52	2	—	8	12	17	12	8	43	1	1	920
					88	58	74	35·2	10·2	13·0	15·3	2·8	1·4	14·4	31·1	24·1	0·9	—	3·7	5·6	7·9	5·6	3·7	19·9	0·5	0·5	
923	Carpet Beaters; Window Cleaners, etc.	583	525	1,108	66	52	118	45	22	23	28	6	3	24	41	44	5	—	9	5	12	2	8	29	—	1	923
					113	99	106	40·6	19·9	20·8	25·3	5·4	2·7	21·7	37·0	39·7	4·5	—	8·1	4·5	10·8	1·8	7·2	26·2	—	0·9	
931, 933–9	Clerks (not Civil Service or Local Authority); Typists	11,966	11,246	23,212	697	491	1,188	620	215	172	181	42	19	163	552	412	9	2	62	62	87	67	102	339	40	10	931, 933–9
					58	44	51	26·7	9·3	7·4	7·8	1·8	0·8	7·0	23·8	17·7	0·4	0·1	2·7	2·7	3·7	2·9	4·4	14·6	1·7	0·4	
940–1	Warehousemen and Storekeepers	4,354	4,011	8,365	358	258	616	279	114	91	132	33	9	97	252	225	10	—	30	33	80	23	43	162	12	3	940–1
					82	64	74	33·4	13·6	10·9	15·8	3·9	1·1	11·6	30·1	26·9	1·2	—	3·6	3·9	9·6	2·7	5·1	19·4	1·4	0·4	
943–9	Packers	1,945	1,906	3,851	162	127	289	119	46	54	70	13	7	55	106	108	5	—	18	21	33	21	17	65	7	—	943–9
					83	67	75	30·9	11·9	14·0	18·2	3·4	1·8	14·3	27·5	28·0	1·3	—	4·7	5·5	8·6	5·5	4·4	16·9	1·8	—	
950	Stationary Engine and Crane Drivers	3,446	3,373	6,819	314	230	544	241	90	92	121	17	14	85	210	218	7	1	43	41	66	28	38	127	7	1	950
					91	68	80	35·3	13·2	13·5	17·7	2·5	2·1	12·5	30·8	32·0	1·0	0·1	6·3	6·0	9·7	4·1	5·6	18·6	1·0	0·1	
951	Boiler Firemen and Stokers	2,390	2,239	4,629	278	200	478	198	85	67	128	29	12	72	190	175	5	—	27	29	66	30	43	101	8	4	951
					116	89	103	42·8	18·4	14·5	27·7	6·3	2·6	15·6	41·0	37·8	1·1	—	5·8	6·3	14·3	6·5	9·3	21·8	1·7	0·9	
970–1	General and Undefined Labourers	30,185	29,445	59,630	3,197	2,476	5,673	2,179	1,085	1,040	1,369	281	108	1,088	2,145	2,051	89	19	349	366	678	238	510	1,232	61	45	970–1
					106	84	95	36·5	18·2	17·4	23·0	4·7	1·8	18·2	36·0	34·4	1·5	0·3	5·9	6·1	11·4	4·0	8·6	20·7	1·0	0·8	

NOTE.—Of the two lines of figures against each occupation the first refers to the number of deaths registered; the second—printed in italics—to the rate of infant mortality per 1,000 births. The numbers after the titles of the several diseases refer to the Detailed International List of Causes of Death as adapted for use in England and Wales.

Occupation Code Number.	Occupation of Mother.	Number of Single and Widowed Females aged 16–45 Years (Census 1921).	Illegitimate Births and Fertility.						Mortality of Illegitimate Infants.																						Occupation Code Number.
									Deaths and Total Infant Mortality.			Ages at Death (Both Sexes).				Causes of Death (Both Sexes).															
			Males.	Females.	Total.	Calculated Births.*	Proportion of Actual to 100 Calculated Births.	Births per 1,000 Single and Widowed Females aged 16–44 Years.	Males.	Females.	Total.	Under 4 weeks.	4 weeks–3 months.	3–6 months.	6–12 months.	Common Infectious Diseases (6–10, 25 : 2).	Tuberculous Diseases (31–37).	Diarrhœa and Enteritis (113).	Developmental and Wasting Diseases (159, 160, 161 : 1, 162 : 2).	All Other Causes.	Syphilis (38).	Rickets (56).	Convulsions (80).	Bronchitis (99).	Pneumonia (100, 101).	Congenital Malformations (159).	Congenital Debility and Sclerema (160 : 1).	Premature Birth (161 : 1).	Injury at Birth (161 : 2).	Suffocation in bed or not stated how (180 pt.).	
		(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*	*(16)*	*(17)*	*(18)*	*(19)*	*(20)*	*(21)*	*(22)*	*(23)*	*(24)*	*(25)*	*(26)*	*(27)*	*(28)*	*(29)*	
—	Occupied and Unoccupied ..	4,513,527	19,654	18,964	38,618	38,618	100	8·6	3,403	2,712	6,115	2,468	1,244	1,189	1,214	169	103	1,097	2,233	2,513	346	21	338	311	575	170	736	1,186	92	68	—
									173	*143*	*158*	*63·9*	*32·2*	*30·8*	*31·4*	*4·4*	*2·7*	*28·4*	*57·8*	*65·1*	*9·0*	*0·5*	*8·8*	*8·1*	*14·9*	*4·4*	*19·1*	*30·6*	*2·4*	*1·8*	
—	Occupied	3,345,883	14,275	13,797	28,072	30,022	94	8·4	2,515	1,954	4,469	1,720	956	883	910	129	84	840	1,753	1,663	270	18	232	221	435	133	571	938	65	26	—
									176	*142*	*159*	*61·3*	*34·1*	*31·5*	*32·4*	*4·6*	*3·0*	*29·9*	*62·5*	*59·2*	*9·6*	*0·6*	*8·3*	*7·9*	*15·5*	*4·7*	*20·3*	*33·5*	*2·3*	*0·9*	
—	Unoccupied	1,167,644	5,379	5,167	10,546	8,596	123	9·0	888	758	1,646	748	288	306	304	40	19	257	480	850	76	3	106	90	140	37	165	248	27	42	—
									165	*147*	*156*	*70·9*	*27·3*	*29·0*	*28·8*	*3·8*	*1·8*	*24·4*	*45·5*	*80·6*	*7·2*	*0·3*	*10·1*	*8·5*	*13·3*	*3·5*	*15·6*	*23·6*	*2·6*	*4·0*	
010–039	Agricultural Occupations ..	39,754	373	334	707	363	195	17·8	58	33	91	40	23	12	16	2	3	15	32	39	5	—	8	6	14	3	8	17	—	—	010·039
									155	*99*	*129*	*56·6*	*32·5*	*17·0*	*22·6*	*2·8*	*4·2*	*21·2*	*45·3*	*55·2*	*7·1*	—	*11·3*	*8·5*	*19·8*	*4·2*	*11·3*	*24·0*	—	—	
040–079	Mining and Quarrying Occupations	2,543	26	34	60	26	231	23·6	13	4	17	6	5	2	4	1	1	3	7	5	—	—	1	—	3	2	5	—	1	—	040–079
									500	*118*	*283*	*100·0*	*83·3*	*33·3*	*66·7*	*16·7*	*16·7*	*50·0*	*116·7*	*83·3*	—	—	*16·7*	—	*50·0*	*33·3*	*83·3*	—	*16·7*	—	
080–689, 940–9	Manufacturing Occupations (including Warehousewomen and Packers)	1,186,726	4,078	3,958	8,036	11,336	71	6·8	731	599	1,330	551	267	246	266	38	21	250	581	440	67	7	58	61	131	49	167	329	22	7	080–689, 940–9
									179	*151*	*166*	*68·6*	*33·2*	*30·6*	*33·1*	*4·7*	*2·6*	*31·1*	*72·3*	*54·8*	*8·3*	*0·9*	*7·2*	*7·6*	*16·3*	*6·1*	*20·8*	*40·9*	*2·7*	*0·9*	
700–769	Persons engaged in Transport and Communication	42,864	87	95	182	406	45	4·2	16	5	21	10	3	3	5	1	—	—	9	11	1	—	3	3	2	1	1	7	—	—	700–769
									184	*53*	*115*	*54·9*	*16·5*	*16·5*	*27·5*	*5·5*	—	—	*49·5*	*60·4*	*5·5*	—	*16·5*	*16·5*	*11·0*	*5·5*	*5·5*	*38·5*	—	—	
770–799	Commercial and Financial Occupations (excluding Clerical Staff)	313,551	640	574	1,214	2,816	43	3·9	108	73	181	76	40	32	33	1	3	34	81	62	5	—	8	6	20	4	31	42	3	—	770–799
									169	*127*	*149*	*62·6*	*32·9*	*26·4*	*27·2*	*0·8*	*2·5*	*28·0*	*66·7*	*51·1*	*4·1*	—	*6·6*	*4·9*	*16·5*	*3·3*	*25·5*	*34·6*	*2·5*	—	
820–879	Professional Occupations ..	253,157	171	168	339	1,674	20	1·3	22	24	46	17	12	8	9	2	—	8	26	10	4	—	2	—	3	3	9	12	—	—	820–879
									129	*143*	*136*	*50·1*	*35·4*	*23·6*	*26·5*	*5·9*	—	*23·6*	*76·7*	*29·5*	*11·8*	—	*5·9*	—	*8·8*	*8·8*	*26·5*	*35·4*	—	—	
880–899	Persons engaged in Entertainments, etc.	18,026	107	95	202	163	124	11·2	10	13	23	11	6	4	2	1	—	4	11	7	1	—	—	1	2	1	2	7	—	1	880–899
									93	*137*	*114*	*54·5*	*29·7*	*19·8*	*9·9*	*5·0*	—	*19·8*	*54·5*	*34·7*	*5·0*	—	—	*5·0*	*9·9*	*5·0*	*9·9*	*34·7*	—	*5·0*	
900–929	Persons engaged in Personal Service	1,011,755	8,178	7,940	16,118	8,493	190	15·9	1,452	1,123	2,575	934	559	528	554	80	51	488	937	1,019	172	10	141	140	244	60	325	492	33	17	900–929
									178	*141*	*160*	*57·9*	*34·7*	*32·8*	*34·4*	*5·0*	*3·2*	*30·3*	*58·1*	*63·2*	*10·7*	*0·6*	*8·7*	*8·7*	*15·1*	*3·7*	*20·2*	*30·5*	*2·0*	*1·1*	
930–939	Clerks (not Civil Service or Local Authority); Typists	389,398	373	419	792	3,951	20	2·0	60	49	109	47	22	30	10	2	4	22	44	37	8	—	4	1	6	6	13	21	6	1	930–939
									161	*117*	*138*	*59·3*	*27·8*	*37·9*	*12·6*	*2·5*	*5·1*	*27·8*	*55·6*	*46·7*	*10·1*	—	*5·1*	*1·3*	*7·6*	*7·6*	*16·4*	*26·5*	*7·6*	*1·3*	
—	All Other Occupations	88,109	242	180	422	794	53	4·8	45	31	76	28	19	18	11	1	1	16	25	33	7	1	7	3	10	4	10	11	—	—	—
									186	*172*	*180*	*66·4*	*45·0*	*42·7*	*26·1*	*2·4*	*2·4*	*37·9*	*59·2*	*78·2*	*16·6*	*2·4*	*16·6*	*7·1*	*23·7*	*9·5*	*23·7*	*26·1*	—	—	
011–3	Farmers and their Relatives; Gardeners	13,776	31	45	76	106	72	5·5	5	1	6	4	1	1	—	—	—	—	3	3	1	—	—	2	—	1	—	1	—	—	011–3
									161	*22*	*79*	*52·6*	*13·2*	*13·2*	—	—	—	—	*39·5*	*39·5*	*13·2*	—	—	*26·3*	—	*13·2*	—	*13·2*	—	—	
020–5	Agricultural Labourers, etc. ..	23,421	337	286	623	233	267	26·6	52	31	83	35	22	10	16	2	3	14	28	36	4	—	8	4	14	2	8	16	—	—	020–5
									154	*108*	*133*	*56·2*	*35·3*	*16·1*	*25·7*	*3·2*	*4·8*	*22·5*	*44·9*	*57·8*	*6·4*	—	*12·8*	*6·4*	*22·5*	*3·2*	*12·8*	*25·7*	—	—	
100–119	Brick, Tile and Pottery Workers	21,180	159	154	313	215	146	14·8	36	32	68	23	15	20	10	1	—	18	23	26	2	—	4	7	5	1	8	13	1	—	100–119
									226	*208*	*217*	*73·5*	*47·9*	*63·9*	*31·9*	*3·2*	—	*57·5*	*73·5*	*83·1*	*6·4*	—	*12·8*	*22·4*	*16·0*	*3·2*	*25·6*	*41·5*	*3·2*	—	
140–159	Chemical Workers; Makers of Soap, Candles, Paint, etc.	12,511	46	36	82	130	63	6·6	9	2	11	5	3	2	1	—	1	2	5	3	1	—	1	—	1	—	2	3	—	—	140–159
									196	*56*	*134*	*61·0*	*36·6*	*24·4*	*12·2*	—	*12·2*	*24·4*	*61·0*	*36·6*	*12·2*	—	*12·2*	—	*12·2*	—	*24·4*	*36·6*	—	—	
160–279	Metal Workers	77,879	378	374	752	820	92	9·7	52	41	93	38	19	16	20	2	—	24	43	24	3	—	3	2	8	2	10	28	3	1	160–279
									138	*110*	*124*	*50·5*	*25·3*	*21·3*	*26·6*	*2·7*	—	*31·9*	*57·2*	*31·9*	*4·0*	—	*4·0*	*2·7*	*10·6*	*2·7*	*13·3*	*37·2*	*4·0*	*1·3*	
200	Machine Tool Workers ..	13,202	71	71	142	142	100	10·8	7	7	14	6	4	1	3	—	—	6	6	2	—	—	—	—	1	—	1	5	1	—	200
									99	*99*	*99*	*42·3*	*28·2*	*7·0*	*21·1*	—	—	*42·3*	*42·3*	*14·1*	—	—	—	—	*7·0*	—	*7·0*	*35·2*	*7·0*	—	
237–8	Grinders, Glazers and Polishers	4,203	36	42	78	44	177	18·6	8	6	14	6	4	2	2	—	—	1	8	5	—	—	—	1	2	—	1	7	—	—	237–8
									222	*143*	*179*	*76·9*	*51·3*	*25·6*	*25·6*	—	—	*12·8*	*102·6*	*64·1*	—	—	—	*12·8*	*25·6*	—	*12·8*	*89·7*	—	—	
254	Press Workers and Stampers	15,700	70	54	124	168	74	7·9	10	9	19	8	2	3	6	—	—	4	12	3	—	—	1	—	2	1	5	4	—	—	254
									143	*167*	*153*	*64·5*	*16·1*	*24·2*	*48·4*	—	—	*32·3*	*96·8*	*24·2*	—	—	*8·1*	—	*16·1*	*8·1*	*40·3*	*32·3*	—	—	
280–299	Workers in Precious Metals and Electro Plate	9,756	55	55	110	97	113	11·3	9	9	18	6	3	5	4	2	1	7	5	3	1	—	—	—	1	—	1	3	—	1	280–299
									164	*164*	*164*	*54·5*	*27·3*	*45·5*	*36·4*	*18·2*	*9·1*	*63·6*	*45·5*	*27·3*	*9·1*	—	—	—	*9·1*	—	*9·1*	*27·3*	—	*9·1*	

TABLE I.—ILLEGITIMATE FERTILITY AND MORTALITY OF ILLEGITIMATE INFANTS CLASSIFIED BY MOTHER'S OCCUPATION, 1921—*continued.*

Occupation Code Number.	Occupation of Mother.	Number of Single and Widowed Females aged 16–45 Years (Census 1921).	Illegitimate Births and Fertility. Males.	Females.	Total.	Calculated Births.*	Proportion of Actual to 100 Calculated Births.	Births per 1,000 Single and Widowed Females aged 16–44 Years.	Mortality of Illegitimate Infants. Deaths and Total Infant Mortality. Males.	Females.	Total.	Ages at Death (Both Sexes). Under 4 weeks.	4 weeks–3 months.	3–6 months.	6–12 months.	Causes of Death (Both Sexes). Common Infectious Diseases (6–10, 25 : 2).	Tuberculous Diseases (31–37).	Diarrhoea and Enteritis (113).	Developmental and Wasting Diseases (159, 160, 161 : 1, 162 : 2).	All Other Causes.	Syphilis (38).	Rickets (56).	Convulsions (80).	Bronchitis (99).	Pneumonia (100, 101).	Congenital Malformations (159).	Congenital Debility and Sclerema (160 : 1).	Premature Birth (161 : 1).	Injury at Birth (161 : 2).	Suffocation in bed or not stated how (180 pt.).	Occupation Code Number.
		(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*	*(16)*	*(17)*	*(18)*	*(19)*	*(20)*	*(21)*	*(22)*	*(23)*	*(24)*	*(25)*	*(26)*	*(27)*	*(28)*	*(29)*	
300–329	Makers of Electrical Apparatus, Watches, Clocks, Instruments	19,554	41	36	77	211	36	3·9	4	2	6	3	2	—	1	—	—	—	2	4	—	—	—	1	2	1	—	1	—	—	300–329
									98	*56*	*78*	*39·0*	*26·0*	—	*13·0*	—	—	—	*26·0*	*51·9*	—	—	—	*13·0*	*26·0*	*13·0*	—	*13·0*	—	—	
330–349	Leather Workers and Leather Goods Makers	15,072	40	48	88	153	58	5·8	7	9	16	8	2	4	2	1	—	3	8	4	1	—	—	2	—	1	2	5	1	—	330–349
									175	*188*	*182*	*90·9*	*22·7*	*45·5*	*22·7*	*11·4*	—	*34·1*	*90·9*	*45·5*	*11·4*	—	—	*22·7*	—	*11·4*	*22·7*	*56·8*	*11·4*	—	
350–399	Textile Workers	350,925	1,527	1,499	3,026	3,300	92	8·6	295	241	536	224	112	86	114	17	7	73	238	201	39	5	26	26	64	25	57	139	8	2	350–399
									193	*161*	*177*	*74·0*	*37·0*	*28·4*	*37·7*	*5·6*	*2·3*	*24·1*	*78·7*	*66·4*	*12·9*	*1·7*	*8·6*	*8·6*	*21·2*	*8·3*	*18·8*	*45·9*	*2·6*	*0·7*	
362–3	Hecklers, Willowers; Card, etc., Frame Tenters	34,785	247	290	537	326	165	15·4	50	45	95	42	17	15	21	3	—	12	47	33	7	1	3	6	13	4	12	29	—	—	362–3
									202	*155*	*177*	*78·2*	*31·7*	*27·9*	*39·1*	*5·6*	—	*22·3*	*87·5*	*61·5*	*13·0*	*1·9*	*5·6*	*11·2*	*24·2*	*7·4*	*22·3*	*54·0*	—	—	
365	Spinners and Piecers ..	31,625	306	265	571	323	177	18·1	53	47	100	34	26	18	22	3	1	14	35	47	9	—	8	8	10	8	10	13	4	—	365
									173	*177*	*175*	*59·5*	*45·5*	*31·5*	*38·5*	*5·3*	*1·8*	*24·5*	*61·3*	*82·3*	*15·8*	—	*14·0*	*14·0*	*17·5*	*14·0*	*17·5*	*22·8*	*7·0*	—	
366	Doublers	10,173	61	47	108	102	106	10·6	12	7	19	7	3	4	5	1	1	3	7	7	2	—	1	1	2	—	4	3	—	—	366
									197	*149*	*176*	*64·8*	*27·8*	*37·0*	*46·3*	*9·3*	*9·3*	*27·8*	*64·8*	*64·8*	*18·5*	—	*9·3*	*9·3*	*18·5*	—	*37·0*	*27·8*	—	—	
367	Winders, Warpers, etc. ..	53,965	181	169	350	487	72	6·5	28	23	51	25	9	9	8	1	1	8	23	18	6	—	1	—	6	3	3	13	2	—	367
									155	*136*	*146*	*71·4*	*25·7*	*25·7*	*22·9*	*2·9*	*2·9*	*22·9*	*65·7*	*51·4*	*17·1*	—	*2·9*	—	*17·1*	*8·6*	*8·6*	*37·1*	*5·7*	—	
370	Weavers	128,625	374	352	726	1,185	61	5·6	67	55	122	52	25	16	29	7	2	15	54	44	7	2	5	6	14	4	12	34	1	1	370
									179	*156*	*168*	*71·6*	*34·4*	*22·0*	*39·9*	*9·6*	*2·8*	*20·7*	*74·4*	*60·6*	*9·6*	*2·8*	*6·9*	*8·3*	*19·3*	*5·5*	*16·5*	*46·8*	*1·4*	*1·4*	
374	Hosiery Frame Tenters ..	17,024	38	60	98	172	57	5·8	7	11	18	6	5	5	2	—	—	3	10	5	—	—	1	1	1	—	4	6	—	—	374
									184	*183*	*184*	*61·2*	*51·0*	*51·0*	*20·4*	—	—	*30·6*	*102·0*	*51·0*	—	—	*10·2*	*10·2*	*10·2*	—	*40·8*	*61–2*	—	—	
379	Lookers and Examiners; Burlers and Menders	19,705	51	52	103	182	57	5·2	13	9	22	11	7	1	3	—	—	4	10	8	2	—	2	—	2	—	1	9	1	1	379
									255	*173*	*214*	*106·8*	*68·0*	*9·7*	*29·1*	—	—	*38·8*	*97·1*	*77·7*	*19·4*	—	*19·4*	—	*19·4*	—	*9·7*	*87·4*	*9·7*	*9·7*	
399	Unskilled Workers	22,877	107	91	198	226	88	8·7	27	15	42	18	11	5	8	—	2	3	21	16	3	—	5	1	5	2	5	13	—	—	399
									252	*165*	*212*	*90·9*	*55·6*	*25·3*	*40·4*	—	*10·1*	*15·2*	*106·1*	*80·8*	*15·2*	—	*25·3*	*5·1*	*25·3*	*10·1*	*25·3*	*65·7*	—	—	
404–408, 419	Tailoresses, Dress Makers, Corset Makers, Embroiderers, Milliners, and Sewing Machinists	304,405	663	582	1,245	2,722	46	4·1	137	88	225	94	41	47	43	5	4	50	100	66	10	—	7	7	18	7	38	49	3	1	404–408, 419
									207	*151*	*181*	*75·5*	*32·9*	*37·8*	*34·5*	*4·0*	*3·2*	*40·2*	*80·3*	*53·0*	*8·0*	—	*5·6*	*5·6*	*14·5*	*5·6*	*30·5*	*39·4*	*2:4*	*0·8*	
412–4	Boot and Shoe Makers ..	23,553	109	102	211	234	90	9·0	19	20	39	19	7	7	6	—	2	7	17	13	3	—	1	1	2	2	5	9	2	1	412–4
									174	*196*	*185*	*90·0*	*33·2*	*33·2*	*28·4*	—	*9·5*	*33·2*	*80·6*	*61·6*	*14·2*	—	*4·7*	*4·7*	*9·5*	*9·5*	*23·7*	*42·7*	*9·5*	*4·7*	
430–449	Makers of Foods	48,978	153	170	323	480	67	6·6	24	23	47	22	6	8	11	1	1	6	23	16	1	—	4	1	4	2	12	7	2	—	430–449
									157	*135*	*146*	*68·1*	*18·6*	*24·8*	*34·1*	*3·1*	*3·1*	*18·6*	*71·2*	*49·5*	*3·1*	—	*12·4*	*3·1*	*12·4*	*6·2*	*37·2*	*21·7*	*6·2*	—	
459	Beer and Mineral Water Bottlers, etc.	7,111	45	49	94	77	122	13·2	5	6	11	7	1	2	1	2	—	—	8	1	—	—	—	—	1	1	1	5	—	—	459
									111	*122*	*117*	*74·5*	*10·6*	*21·3*	*10·6*	*21·3*	—	—	*85·1*	*10·6*	—	—	—	—	*10·6*	*10·6*	*10·6*	*53·2*	—	—	
460–9	Tobacco Factory Operatives ..	13,987	30	34	64	140	46	4·6	4	6	10	4	3	2	1	—	—	4	4	2	—	—	—	—	1	—	1	2	—	—	460–9
									133	*176*	*156*	*62·5*	*46·9*	*31·3*	*15·6*	—	—	*62·5*	*62·5*	*31·3*	—	—	—	—	*15·6*	—	*15·6*	*31·3*	—	—	
470–499	Workers in Wood	12,001	71	57	128	124	103	10·7	6	8	14	4	3	4	3	1	—	4	5	4	—	—	1	—	1	—	1	4	—	—	470–499
									85	*140*	*109*	*31·3*	*23·4*	*31·3*	*23·4*	*7·8*	—	*31·3*	*39·1*	*31·3*	—	—	*7·8*	—	*7·8*	—	*7·8*	*31·3*	—	—	
510–559	Printers and Paper Workers ..	79,499	197	190	387	785	49	4·9	32	26	58	21	15	11	11	3	2	10	20	23	3	—	2	5	8	—	7	11	1	—	510–559
									162	*137*	*150*	*54·3*	*38·8*	*28·4*	*28·4*	*7·8*	*5·2*	*25·8*	*51·7*	*59·4*	*7·8*	—	*5·2*	*12·9*	*20·7*	—	*18·1*	*28·4*	*2·6*	—	
600–9	Rubber Workers	8,772	52	46	98	93	105	11·2	10	8	18	7	3	4	4	—	1	6	10	1	—	—	—	—	1	1	4	5	—	—	600–9
									192	*174*	*184*	*71·4*	*30·6*	*40·8*	*40·8*	—	*10·2*	*61·2*	*102·0*	*10·2*	—	—	—	—	*10·2*	*10·2*	*40·8*	*51·0*	—	—	
770	Proprietors and Managers of Dealing Businesses	32,110	68	57	125	120	104	3·9	8	6	14	4	2	4	4	1	—	4	4	5	—	—	1	—	1	—	2	1	1	—	770
									118	*105*	*112*	*32·0*	*16·0*	*32·0*	*32·0*	*8·0*	—	*32·0*	*32·0*	*40·0*	—	—	*8·0*	—	*8·0*	—	*16·0*	*8·0*	*8·0*	—	
775	Saleswomen and Shop Assistants	267,630	482	409	891	2,610	34	3·3	80	50	130	58	32	22	18	—	2	24	61	43	3	—	5	5	11	4	21	34	2	—	775
									166	*122*	*146*	*65·1*	*35·9*	*24·7*	*20·2*	—	*2·2*	*26·9*	*68·5*	*48·3*	*3·4*	—	*5·6*	*5·6*	*12·3*	*4·5*	*23·6*	*38·2*	*2·2*	—	
777, 778	Costermongers and Hawkers ..	2,650	66	82	148	19	779	55·8	12	15	27	10	5	4	8	—	1	5	10	11	1	—	1	1	7	—	5	4	—	—	777, 778
									182	*183*	*182*	*67·6*	*33·8*	*27·0*	*54·1*	—	*6·8*	*33·8*	*67·6*	*74·3*	*6·8*	—	*6·8*	*6·8*	*47·3*	—	*33·8*	*27·0*	—	—	
800, 805	Civil Service and Local Authority Officials and Clerks	57,434	38	42	80	493	16	1·4	4	12	16	6	4	4	2	—	—	5	5	6	—	—	1	—	2	1	—	4	—	—	800, 805
									105	*286*	*200*	*75·0*	*50·0*	*50·0*	*25·0*	—	—	*62·5*	*62·5*	*75·0*	—	—	*12·5*	—	*25·0*	*12·5*	—	*50·0*	—	—	
843–5	Sick Nurses, Mental Attendants, etc.	80,500	119	116	235	548	43	2·9	18	19	37	13	9	7	8	2	—	6	21	8	3	—	2	—	2	3	6	10	—	—	843–5
									151	*164*	*157*	*55·3*	*38·3*	*29·8*	*34·0*	*8·5*	—	*25·5*	*89·4*	*34·0*	*12·8*	—	*8·5*	—	*8·5*	*12·8*	*25·5*	*42·6*	—	—	
850–1	Teachers	142,063	41	42	83	891	9	0·6	3	4	7	2	3	1	1	—	—	2	3	2	1	—	—	—	1	—	1	2	—	—	850–1
									73	*95*	*84*	*24·1*	*36·1*	*12·0*	*12·0*	—	—	*24·1*	*36·1*	*24·1*	*12·0*	—	—	—	*12·0*	—	*12·0*	*24·1*	—	—	
885	Actresses	5,477	54	41	95	51	186	17·3	5	6	11	4	4	1	2	1	—	1	4	5	—	—	—	1	2	—	1	3	—	—	885
									93	*146*	*116*	*42·1*	*42·1*	*10·5*	*21·1*	*10·5*	—	*10·5*	*42·1*	*52·6*	—	—	—	*10·5*	*21·1*	—	*10·5*	*31·6*	—	—	
900	Domestic Servants	809,953	6,718	6,644	13,362	6,991	191	16·5	1,166	910	2,076	767	450	415	444	63	41	386	755	831	136	9	119	117	189	50	263	395	28	17	900
									174	*137*	*155*	*57·4*	*33·7*	*31·1*	*33·2*	*4·7*	*3·1*	*28·9*	*56·5*	*62·2*	*10·2*	*0·7*	*8·9*	*8·8*	*14·1*	*3·7*	*19·7*	*29·6*	*2·1*	*1·3*	

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23	(24)	(25)	(26)	(27)	(28)	(29)	
916	Waitresses	42,887	325	324	649	419	155	15·1	43	55	98	29	24	31	14	1	1	23	35	38	10	—	6	4	8	2	13	18	1	—	916
									132	*170*	*151*	*44·7*	*37·0*	*47·8*	*21·6*	*1·5*	*1·5*	*35·4*	*53·9*	*58·6*	*15·4*	—	*9·2*	*6·2*	*12·3*	*3·1*	*20·0*	*27·7*	*1·5*	—	
918	Laundry Workers	54,040	367	332	699	469	149	12·9	87	42	129	45	29	25	30	6	3	27	48	45	10	—	4	7	14	2	14	27	—	—	918
									237	*127*	*185*	*64·4*	*41·5*	*35·8*	*42·9*	*8·6*	*4·3*	*38·6*	*68·7*	*64·4*	*14·3*	—	*5·7*	*10·0*	*20·0*	*2·9*	*20·0*	*38·6*	—	—	
922	Charwomen	27,414	470	406	876	104	842	32·0	111	87	198	64	39	42	53	6	5	32	72	83	14	1	10	8	28	6	28	35	3	—	922
									236	*214*	*226*	*73·1*	*44·5*	*47·9*	*60·5*	*6·8*	*5·7*	*36·5*	*82·2*	*94·7*	*16·0*	*1·1*	*11·4*	*9·1*	*32·0*	*6·8*	*32·0*	*40·0*	*3·4*	—	
940–9	Warehousewomen and Packers..	96,897	267	249	516	984	52	5·3	51	40	91	44	20	13	14	2	1	22	44	22	2	1	5	6	4	4	11	28	1	1	940–9
									191	*161*	*176*	*85·3*	*38·8*	*25·2*	*27·1*	*3·9*	*1·9*	*42·6*	*85·3*	*42·6*	*3·9*	*1·9*	*9·7*	*11·6*	*7·8*	*7·8*	*21·3*	*54·3*	*1·9*	*1·9*	
964	Rag, Bone, Bottle, etc. Sorters..	3,040	47	26	73	26	281	24·0	13	6	19	5	5	6	3	—	—	6	4	9	2	1	2	1	2	—	2	2	—	—	964
									277	*231*	*260*	*68·5*	*68·5*	*82·2*	*41·1*	—	—	*82·2*	*54·8*	*123·3*	*27·4*	*13·7*	*27·4*	*13·7*	*27·4*	—	*27·4*	*27·4*	—	—	
970–1	Jar and Bottle Washers, Sweepers, and Miscellaneous Unskilled Workers	9,116	115	86	201	91	221	22·0	22	12	34	16	8	5	5	1	—	4	14	15	2	—	4	2	6	3	7	4	—	—	970–1
									191	*140*	*169*	*79·6*	*39·8*	*24·9*	*24·9*	*5·0*	—	*19·9*	*69·7*	*74·6*	*10·0*	—	*19·9*	*10·0*	*29·9*	*14·9*	*34·8*	*19·9*	—	—	

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* The calculated births are those which would have occurred if the illegitimate fertility rate at each age group in the several occupations had been the same as that for all single and widowed females. These rates, which must be regarded only as approximations, are based on those used by the Government Actuary and the Ministry of Health for the purpose of National Health Insurance (*see* page 140 of the Registrar General's Statistical Review, 1922 (Text)). The rates for the several age groups bear the same ratios to each other as those used for health insurance purposes, but are so modified as to yield the number of births registered in 1921.

ABSTRACTS

DEATHS OF MALES

in Several Occupations, 1921-23, classified by Age and Cause.

The numbers in brackets after the title of each occupation or occupational group are the code numbers of the occupations comprised therein. In cases where only the workers in certain industries are concerned, both occupation and industry code numbers are given. The occupation code number is preceded by the word "Occ.", and the industry code number by the word "Ind." The full list of occupations will be found in Table A.

International List numbers of the causes of death included under the titles shown in these abstracts.

Cause of Death.	International List No.
Influenza	11
Respiratory tuberculosis	31
Other tuberculosis	32–37
Syphilis, &c.—	
Syphilis	38
Tabes dorsalis	72
General paralysis of insane	76
Aneurysm	91A
Cancer, all sites—	
Skin	48
Lip	43 pt.
Tongue	43 pt.
Œsophagus	44 pt.
Stomach (including pylorus)	44 pt.
Other sites	43 pt., 44 pt., 45, 47, 49
Chronic rheumatism, &c., gout	52
Diabetes	57
Alcoholism	66
Cerebral hæmorrhage, &c.	74, 75A
Other diseases of nervous system	70, 71, 73, 75B, 77–86
Valvular disease of heart	90 (1–4)
Other heart disease	87–89, 90 (5–9)
Arterio-sclerosis	91B
Other diseases of circulatory system	91C–96

Cause of Death.	International List No.
Bronchitis	99
Pneumonia	100, 101
Chronic interstitial pneumonia	107A
Other diseases of respiratory system	97, 98, 102–106, 107B, 107C
Ulcer of stomach	111A
Ulcer of duodenum	111B
Appendicitis	117
Hernia	118A
Intestinal obstruction	118B
Cirrhosis of liver	122
Other diseases of digestive system	108–110, 112–116 119–121, 123–127
Acute nephritis	128
Chronic nephritis	129
Diseases of the prostate	135
Other genito-urinary diseases	130–134, 136, 142
Old age	164
Suicide	165–174
Accident	175–189, 192–196, 201–203
Other causes	—

ALL MALES.

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	16,151	504	571	1,456	2,103	2,633	3,269	1,830	3,785	12	13	19	28	41	79	136	238
Respiratory tuberculosis	52,091	3,209	6,203	11,078	12,383	10,758	6,156	1,468	836	78	143	141	165	168	148	109	52
Other tuberculosis	5,377	971	887	1,098	855	730	489	164	183	24	20	14	11	11	12	12	11
Syphilis, etc.	9,219	36	48	489	2,173	2,933	2,298	672	570	1	1	6	29	46	55	50	36
Syphilis	956	18	22	101	219	274	213	64	45	0	1	1	3	4	5	5	3
Tabes dorsalis	1,838	2	—	26	199	491	666	256	198	0	—	0	3	8	16	19	12
General paralysis of insane	4,040	15	20	322	1,477	1,392	633	108	73	0	0	4	20	22	15	8	5
Aneurysm	2,385	1	6	40	278	776	786	244	254	0	0	1	4	12	19	18	16
Cancer, all sites	63,575	161	251	897	3,044	10,640	20,243	10,923	17,416	4	6	11	41	166	488	810	1094
Skin	2,192	—	8	29	94	276	505	314	966	—	0	0	1	4	12	23	61
Lip	775	—	1	2	6	59	188	118	401	—	0	0	0	1	5	9	25
Tongue	3,342	—	1	9	100	655	1,311	532	734	—	0	0	1	10	32	39	46
Œsophagus	4,409	—	1	13	90	870	1,717	769	949	—	0	0	1	14	41	57	60
Stomach	13,899	5	10	165	830	2,534	4,503	2,418	3,434	0	0	2	11	40	109	179	216
Other sites	38,958	156	230	679	1,924	6,246	12,019	6,772	10,932	4	5	9	26	98	290	502	686
Chronic rheumatism, etc., Gout	2,471	—	6	32	72	241	588	473	1,059	—	0	0	1	4	14	35	66
Diabetes	5,680	159	193	454	506	832	1,342	856	1,338	4	4	6	7	13	32	63	84
Alcoholism	348	—	—	16	105	129	65	18	15	—	—	0	1	2	2	1	1
Cerebral hæmorrhage, etc.	37,416	37	72	279	864	3,199	7,949	6,355	18,661	1	2	4	12	50	192	471	172
Other dis. of the nervous system	14,667	816	807	1,513	1,831	2,354	2,904	1,505	2,937	20	19	19	24	37	70	112	184
Valvular disease of heart	33,300	532	676	1,721	2,758	4,657	7,734	5,032	10,190	13	16	22	37	73	186	373	640
Other heart disease	43,792	383	493	1,442	2,276	4,513	9,154	7,033	18,498	9	11	18	30	71	221	522	1161
Arterio-sclerosis	24,163	3	1	36	230	1,202	4,199	4,050	14,442	0	0	0	3	19	101	300	907
Other dis. of circulatory system	1,258	15	21	42	120	232	321	170	337	0	0	1	2	4	8	13	21
Bronchitis	42,948	68	145	478	1,508	3,602	7,758	6,505	22,884	2	3	6	20	56	187	483	1437
Pneumonia	34,085	936	1,247	3,202	5,394	6,580	6,963	3,556	6,207	23	29	41	72	103	168	264	390
Chronic interstitial pneumonia	525	2	5	17	63	143	171	75	49	0	0	0	1	2	4	6	3
Other dis. of respiratory system	7,707	112	147	425	795	1,346	1,674	975	2,233	3	3	5	11	21	40	72	140
Ulcer of stomach	3,492	50	97	327	797	912	747	275	287	1	2	4	11	14	18	20	18
Ulcer of duodenum	1,899	19	65	201	415	510	399	158	132	0	1	3	6	8	10	12	8
Appendicitis	3,233	452	394	491	501	561	494	169	171	11	9	6	7	9	12	13	11
Hernia	2,119	12	26	43	113	268	449	304	904	0	1	1	2	4	11	23	57
Intestinal obstruction	2,593	102	110	179	230	378	561	322	711	2	3	2	3	6	14	24	45
Cirrhosis of liver	3,703	7	5	47	315	1,006	1,276	543	504	0	0	1	4	16	31	40	32
Other dis. of digestive system	8,594	176	209	444	795	1,347	1,917	1,016	2,690	4	5	6	11	21	46	75	169
Acute nephritis	1,594	79	106	171	257	337	325	132	187	2	2	2	3	5	8	10	12
Chronic nephritis	17,054	148	241	716	1,346	2,896	4,455	2,495	4,757	4	6	9	18	45	107	185	299
Diseases of the prostate	6,532	1	—	5	13	107	875	1,167	4,364	0	—	0	0	2	21	87	274
Other genito-urinary diseases	5,115	26	69	182	353	709	1,032	689	2,055	1	2	2	5	11	25	51	129
Old age	33,623	—	—	—	—	14	431	1,392	31,786	—	—	—	—	0	10	103	1996
Suicide	8,435	139	312	778	1,539	2,182	1,996	741	748	3	7	10	21	34	48	55	47
Accident	19,268	1,481	1,594	2,687	3,002	3,471	3,147	1,265	2,621	36	37	34	40	54	76	94	165
Other causes	20,671	1,167	1,040	1,981	2,525	3,477	4,382	2,270	3,829	—	—	—	—	—	—	—	—
All causes	532,698	11,803	16,041	32,927	49,281	74,899	105,763	64,598	177,386	288	369	419	658	1170	2549	4792	11138
Years of life (Census population × 3).	,291,152	4,104,276	4,345,155	7,863,840	7,489,125	6,399,537	4,148,529	1,348,089	1,592,601								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	117	105	105	103	101	99	96	82								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,013
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 101

ALL OCCUPIED AND RETIRED CIVILIAN MALES.

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	15,557	400	520	1,387	2,042	2,572	3,205	1,791	3,640	11	13	18	28	41	80	142	290
Respiratory tuberculosis	48,357	2,562	5,489	10,014	11,623	10,385	6,039	1,439	806	69	136	133	160	166	150	114	64
Other tuberculosis	4,698	670	737	978	799	701	475	158	180	18	18	13	11	11	12	13	14
Syphilis, etc.	8,443	14	43	414	1,909	2,705	2,190	639	529	0	1	5	26	43	55	51	42
Syphilis	885	9	20	89	204	255	205	59	44	0	0	1	3	4	5	5	4
Tabes dorsalis	1,730	—	—	24	185	458	641	239	183	—	—	0	3	7	16	19	15
General paralysis of insane	3,627	4	17	264	1,280	1,285	599	107	71	0	0	4	18	21	15	8	6
Aneurysm	2,201	1	6	37	240	707	745	234	231	0	0	0	3	11	19	19	18
Cancer, all sites	61,634	126	233	853	2,905	10,369	19,811	10,641	16,696	3	6	11	40	166	494	843	1330
Skin	2,117	—	8	26	93	270	487	312	921	—	0	0	1	4	12	25	73
Lip	750	—	1	2	4	54	185	115	389	—	0	0	0	1	5	9	31
Tongue	3,220	—	1	7	93	640	1,271	514	694	—	0	0	1	10	32	41	55
Œsophagus	4,272	—	1	13	84	845	1,680	746	903	—	0	0	1	13	42	59	72
Stomach	13,590	5	10	163	787	2,472	4,443	2,367	3,343	0	0	2	11	39	111	187	266
Other sites	37,685	121	212	642	1,844	6,088	11,745	6,587	10,446	3	5	9	25	97	293	522	832
Chronic rheumatism, etc., Gout	2,382	—	4	30	68	235	570	460	1,015	—	0	0	1	4	14	36	81
Diabetes	5,385	122	181	415	486	804	1,300	825	1,252	3	5	6	7	13	32	65	100
Alcoholism	315	—	—	13	92	121	60	17	12	—	—	0	1	2	1	1	1
Cerebral hæmorrhage, etc.	36,277	28	68	253	815	3,098	7,767	6,219	18,029	1	2	3	11	49	194	493	1436
Other dis. of the nervous system	13,100	486	582	1,215	1,613	2,213	2,761	1,445	2,785	13	14	16	22	35	69	114	222
Valvular disease of heart	32,057	388	630	1,626	2,628	4,506	7,558	4,925	9,796	10	16	22	36	72	188	390	780
Other heart disease	42,083	280	451	1,348	2,168	4,362	8,927	6,827	17,720	8	11	18	30	70	222	541	1411
Arterio-sclerosis	23,264	3	1	34	211	1,159	4,066	3,940	13,850	0	0	0	3	19	101	312	1103
Other dis. of circulatory system	1,207	14	21	42	111	224	311	165	319	0	1	1	2	4	8	13	25
Bronchitis	41,909	43	125	446	1,442	3,534	7,665	6,422	22,232	1	3	6	20	56	191	509	1771
Pneumonia	32,900	765	1,141	3,054	5,226	6,452	6,842	3,489	5,931	21	28	40	72	103	170	276	472
Chronic interstitial pneumonia	498	1	4	15	57	134	167	72	48	0	0	0	1	2	4	6	4
Other dis. of respiratory system	7,406	88	128	386	763	1,309	1,640	956	2,136	2	3	5	10	21	41	76	170
Ulcer of stomach	3,354	43	88	313	759	888	730	265	268	1	2	4	10	14	18	21	21
Ulcer of duodenum	1,808	18	59	191	398	497	380	147	118	0	1	3	5	8	9	12	9
Appendicitis	3,065	391	365	472	487	548	480	164	158	10	9	6	7	9	12	13	13
Hernia	2,061	10	24	40	108	262	445	302	870	0	1	1	1	4	11	24	69
Intestinal obstruction	2,458	92	97	156	214	367	547	304	681	2	2	2	3	6	14	24	54
Cirrhosis of liver	3,562	5	5	41	304	970	1,225	529	483	0	0	1	4	15	31	42	38
Other dis. of digestive system	8,207	144	182	394	753	1,305	1,865	989	2,575	4	5	5	10	21	46	78	205
Acute nephritis	1,541	67	102	166	250	334	316	127	179	2	3	2	3	5	8	10	14
Chronic nephritis	16,323	110	211	668	1,267	2,794	4,322	2,426	4,525	3	5	9	17	45	108	192	360
Diseases of the prostate	6,269	1	—	5	13	103	857	1,131	4,159	0	—	0	0	2	21	90	331
Other genito-urinary diseases	4,845	17	56	164	325	679	998	665	1,941	0	1	2	4	11	25	53	155
Old age	32,539	—	—	—	—	14	424	1,355	30,746	—	—	—	—	0	11	107	2449
Suicide	8,020	111	273	713	1,447	2,102	1,940	725	709	3	7	9	20	34	48	57	56
Accident	18,201	1,330	1,438	2,488	2,849	3,314	3,054	1,227	2,501	36	36	33	39	53	76	97	199
Other causes	19,479	885	893	1,777	2,363	3,348	4,282	2,231	3,700	—	—	—	—	—	—	—	—
All causes	509,204	9,214	14,151	30,111	46,495	72,408	103,219	63,017	170,589	247	352	399	639	1156	2572	4991	13586
Years of life (Census population × 3).	35,358,036	3,725,301	4,022,073	7,542,300	7,274,280	6,262,878	4,013,049	1,262,496	1.255,659								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	100	100	100	100	100	100	100	100								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,000
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 100

SOCIAL CLASS I.—UPPER AND MIDDLE (Civilians only).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	419	2	5	22	43	54	88	59	146	5	7	15	25	32	71	150	298
Respiratory tuberculosis	582	11	35	81	150	145	102	29	29	28	50	57	87	86	82	74	59
Other tuberculosis	71	1	10	17	11	14	9	5	4	3	14	12	6	8	7	13	8
Syphilis, etc.	186	—	—	6	24	53	59	23	21	—	—	4	14	32	48	59	43
Syphilis	12	—	—	—	2	5	4	—	1	—	—	—	1	3	3	—	2
Tabes dorsalis	45	—	—	—	1	7	25	6	6	—	—	—	1	4	20	15	12
General paralysis of insane	77	—	—	5	18	31	15	5	3	—	—	3	10	18	12	13	6
Aneurysm	52	—	—	1	3	10	15	12	11	—	—	1	2	6	12	31	22
Cancer, all sites	1,652	1	3	14	41	245	478	280	590	3	4	10	24	146	386	714	1203
Skin	25	—	1	—	2	3	7	2	10	—	1	—	1	2	6	5	20
Lip	5	—	—	—	—	—	2	—	3	—	—	—	—	—	2	—	6
Tongue	54	—	—	—	1	12	14	10	17	—	—	—	1	7	11	25	35
Œsophagus	99	—	—	—	1	19	37	14	28	—	—	—	1	11	30	36	57
Stomach	265	—	—	6	7	38	82	53	79	—	—	4	4	23	66	135	161
Other sites	1,204	1	2	8	30	173	336	201	453	3	3	6	17	103	271	512	924
Chronic rheumatism, etc., Gout	64	—	—	—	1	5	9	14	35	—	—	—	1	3	7	36	71
Diabetes	271	1	3	9	8	32	58	60	100	3	4	6	5	19	47	153	204
Alcoholism	10	—	—	—	2	5	1	2	—	—	—	—	1	3	1	5	—
Cerebral hæmorrhage, etc.	1,104	—	1	6	12	76	213	176	620	—	1	4	7	45	172	449	1264
Other dis. of the nervous system	353	3	4	14	31	59	75	50	117	8	6	10	18	35	61	127	239
Valvular disease of heart	699	1	4	10	30	59	167	114	314	3	6	7	17	35	135	291	640
Other heart disease	1,422	1	6	16	44	129	330	269	627	3	9	11	26	77	266	686	1278
Arterio-sclerosis	967	—	—	1	6	52	193	147	568	—	—	1	3	31	156	375	1158
Other dis. of circulatory system	64	—	—	1	3	10	14	16	20	—	—	1	2	6	11	41	41
Bronchitis	492	1	—	2	8	28	58	53	342	3	—	1	5	17	47	135	697
Pneumonia	838	3	11	37	109	157	179	91	251	8	16	26	63	93	144	232	512
Chronic interstitial pneumonia	11	—	—	1	—	3	3	1	3	—	—	1	—	2	2	3	6
Other dis. of respiratory system	200	1	1	6	12	29	39	28	84	3	1	4	7	17	31	71	171
Ulcer of stomach	78	—	—	1	8	16	27	11	15	—	—	1	5	10	22	28	31
Ulcer of duodenum	70	—	2	3	10	15	19	9	12	—	3	2	6	9	15	23	24
Appendicitis	136	6	6	10	20	30	35	18	11	16	9	7	12	18	28	46	22
Hernia	37	—	—	1	3	2	8	7	16	—	—	1	2	1	6	18	33
Intestinal obstruction	89	—	3	4	2	17	19	10	34	—	4	3	1	10	15	25	69
Cirrhosis of liver	156	—	—	1	15	42	57	18	23	—	—	1	9	25	46	46	47
Other dis. of digestive system	307	1	6	6	23	48	79	34	110	3	9	4	13	29	64	87	224
Acute nephritis	33	—	1	3	1	5	9	3	11	—	1	2	1	3	7	8	22
Chronic nephritis	558	1	1	4	31	79	142	100	200	3	1	3	18	47	115	255	408
Diseases of the prostate	316	—	—	—	—	4	29	47	236	—	—	—	—	2	23	120	481
Other genito-urinary diseases	172	1	1	3	8	17	30	22	90	3	1	2	5	10	24	56	183
Old age	671	—	—	—	—	—	4	15	652	—	—	—	—	—	3	38	1329
Suicide	234	—	3	19	48	61	63	19	21	—	4	13	28	36	51	48	43
Accident	366	16	34	38	64	66	46	29	73	41	49	27	37	39	37	74	149
Other causes	581	4	25	38	65	100	142	89	118	—	—	—	—	—	—	—	—
All causes	13,209	55	165	374	833	1,657	2,784	1,848	5,493	142	237	261	484	985	2247	4711	11199
Years of life (Census population × 3)	803,730	38,598	69,558	143,184	171,957	168, 249	123,906	39,228	49,050								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	57	67	65	76	85	87	94	82								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	812
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	82

SOCIAL CLASS II.—INTERMEDIATE BETWEEN I AND III (Civilians only).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	3,435	42	66	264	456	521	648	396	1,042	10	11	19	29	37	69	136	302
Respiratory tuberculosis	8,150	270	728	1,859	2,124	1,772	968	265	164	62	121	132	137	125	103	91	48
Other tuberculosis	856	51	97	183	185	159	107	31	43	12	16	13	12	11	11	11	12
Syphilis, etc.	1,802	1	7	51	328	539	541	170	165	0	1	4	21	38	58	58	48
Syphilis	161	1	2	9	40	49	38	14	8	0	0	1	3	3	4	5	2
Tabes dorsalis	452	—	—	1	30	112	184	68	57	—	—	0	2	8	20	23	17
General paralysis of insane	698	—	4	35	214	255	138	31	21	—	1	2	14	18	15	11	6
Aneurysm	491	—	1	6	44	123	181	57	79	—	0	0	3	9	19	20	23
Cancer, all sites	14,479	18	39	163	549	2,129	4,295	2,543	4,743	4	6	12	35	150	458	871	1375
Skin	388	—	—	7	9	30	80	55	207	—	—	0	1	2	9	19	60
Lip	132	—	—	—	—	7	29	22	74	—	—	—	—	0	3	8	21
Tongue	567	—	1	3	16	108	206	91	142	—	0	0	1	8	22	31	41
Œsophagus	941	—	—	—	14	154	365	154	254	—	—	—	1	11	39	53	74
Stomach	3,021	—	1	19	131	452	881	584	953	—	0	1	8	32	94	200	276
Other sites	9,430	18	37	134	379	1,378	2,734	1,637	3,113	4	6	9	24	97	291	560	903
Chronic rheumatism, etc., Gout	564	—	—	6	14	45	121	109	269	—	—	0	1	3	13	37	78
Diabetes	2,001	10	31	100	125	273	517	334	611	2	5	7	8	19	55	114	177
Alcoholism	166	—	—	8	46	67	35	5	5	—	—	1	3	5	4	2	1
Cerebral hæmorrhage, etc.	9,314	4	8	41	176	742	1,865	1,436	5,042	1	1	3	11	52	199	492	1462
Other dis. of the nervous system	2,954	39	76	195	332	509	638	361	804	9	13	14	21	36	68	124	233
Valvular disease of heart	7,407	39	84	253	478	885	1,665	1,206	2,797	9	14	18	31	63	177	413	811
Other heart disease	11,233	32	75	250	463	1,110	2,373	1,776	5,154	7	12	18	30	78	253	608	1494
Arterio-sclerosis	5,842	1	—	5	55	300	1,018	887	3,576	0	—	0	4	21	108	304	1037
Other dis. of circulatory system	342	—	5	6	21	52	99	55	104	—	1	0	1	4	11	19	30
Bronchitis	7,017	2	13	54	175	432	966	807	4,568	0	2	4	11	31	103	276	1324
Pneumonia	6,564	68	121	464	957	1,230	1,357	714	1,653	16	20	33	62	87	145	244	479
Chronic interstitial pneumonia	87	—	1	3	11	18	29	15	10	—	0	0	1	1	3	5	3
Other dis. of respiratory system	1,748	12	18	73	149	297	355	215	629	3	3	5	10	21	38	74	182
Ulcer of stomach	668	6	6	46	115	192	169	57	77	1	1	3	7	14	18	20	22
Ulcer of duodenum	460	1	5	41	73	137	106	49	48	0	1	3	5	10	11	17	14
Appendicitis	831	38	74	123	149	186	163	38	60	9	12	9	10	13	17	13	17
Hernia	466	—	1	6	19	41	91	67	241	—	0	0	1	3	10	23	70
Intestinal obstruction	643	12	12	24	51	87	152	87	218	3	2	2	3	6	16	30	63
Cirrhosis of liver	1,453	—	1	11	136	409	515	203	178	—	0	1	9	29	55	69	52
Other dis. of digestive system	2,169	11	21	78	188	336	496	265	774	3	3	6	12	24	53	91	224
Acute nephritis	360	3	10	26	57	89	81	38	56	1	2	2	4	6	9	13	16
Chronic nephritis	4,514	8	27	117	275	753	1,167	673	1,494	2	4	8	18	53	124	230	433
Diseases of the prostate	2,101	—	—	—	3	26	246	345	1,481	—	—	—	0	2	26	118	429
Other genito-urinary diseases	1,263	2	8	21	65	142	231	158	636	0	1	1	4	10	25	54	184
Old age	7,755	—	—	—	—	3	57	176	7,519	—	—	—	—	0	6	60	2180
Suicide	2,133	15	61	155	416	655	507	165	159	3	10	11	27	46	54	56	46
Accident	2,803	88	131	316	440	554	503	191	580	20	22	22	28	39	54	65	168
Other causes	4,472	118	126	363	526	746	1,082	557	954	—	—	—	—	—	—	—	—
All causes	116,052	891	1,852	5,305	9,157	15,436	23,163	14,394	45,854	205	307	376	589	1090	2469	4928	13295
Years of life (Census population × 3)	6,996,501	434,838	602,382	1,412,346	1,555,764	1,415,823	938,337	292,107	344,904								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	83	87	94	92	94	96	99	98								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	942
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	94

SOCIAL CLASS III.—SKILLED WORKERS (Civilians only).																	CAUSE OF DEATH.	SOCIAL CLASS IV.—INTERMEDIATE BETWEEN III AND V (Civilians only).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
5,770	162	252	580	804	956	1.166	596	1,254	10	14	16	25	38	77	130	265	Influenza	3,413	135	133	301	436	594	723	410	681	12	14	19	31	49	89	159	298
20,394	1,147	2,572	4,567	4,866	4,066	2,344	550	282	71	140	129	151	160	155	120	60	Respiratory tuberculosis ..	9,930	650	1,329	2,037	2,286	2,055	1,192	247	134	59	135	132	164	168	147	96	59
2,019	295	332	467	338	289	177	56	65	18	18	13	10	11	12	12	14	Other tuberculosis	1,025	200	191	192	155	136	89	29	33	18	19	12	11	11	11	11	14
3,303	5	15	194	789	1,060	817	227	196	0	1	5	24	42	54	49	41	Syphilis, etc.	1,545	3	13	90	375	507	376	111	70	0	1	6	27	42	46	43	31
315	2	7	38	76	79	76	23	14	0	0	1	2	3	5	5	3	Syphilis	177	1	6	26	43	51	34	10	6	0	1	2	3	4	4	4	3
660	—	—	12	68	178	243	86	73	—	—	0	2	7	16	19	15	Tabes dorsalis	295	—	—	6	41	73	106	45	24	—	—	0	3	6	13	17	10
1,514	3	6	132	555	519	231	40	28	0	0	4	17	20	15	9	6	General paralysis of insane ..	634	1	5	44	238	234	94	8	10	0	1	3	17	19	12	3	4
814	—	2	12	90	284	267	78	81	—	0	0	3	11	18	17	17	Aneurysm	439	1	2	14	53	149	142	48	30	0	0	1	4	12	18	19	13
23,452	52	113	386	1,292	4,068	7,501	3,964	6,076	3	6	11	40	160	495	863	1284	Cancer, all sites	11,526	38	54	174	553	1,996	3,794	1,940	2,977	3	5	11	40	163	469	754	1301
812	—	5	13	39	113	188	130	324	—	0	0	1	4	12	28	68	Skin	477	—	2	4	20	58	114	60	219	—	0	0	1	5	14	23	96
181	—	—	—	2	16	41	33	89	—	—	—	0	1	3	7	19	Lip	244	—	1	1	1	16	62	25	138	—	0	0	0	1	8	10	60
1,184	—	—	1	37	229	475	191	251	—	—	0	1	9	31	42	53	Tongue	604	—	—	3	17	128	255	88	113	—	—	0	1	10	32	34	49
1,708	—	—	8	41	362	658	284	355	—	—	0	1	14	43	62	75	Œsophagus	708	—	—	3	10	155	278	140	122	—	—	0	1	13	34	54	53
5,157	2	4	73	357	988	1,670	839	1,224	0	0	2	11	39	110	183	259	Stomach	2,733	2	1	35	163	525	918	486	603	0	0	2	12	43	114	189	264
14,410	50	104	291	816	2,360	4,469	2,487	3,833	3	6	8	25	93	295	542	810	Other sites	6,760	36	50	128	342	1,114	2,167	1,141	1,782	3	5	8	24	91	268	444	779
893	—	2	14	33	106	232	163	343	—	0	0	1	4	15	35	73	Chronic rheumatism, etc., Gout	469	—	1	3	13	33	120	91	208	—	0	0	1	3	15	35	91
1,917	61	83	187	213	292	461	281	339	4	5	5	7	11	30	61	72	Diabetes	745	35	42	72	92	109	173	93	129	3	4	5	7	9	21	36	56
63	—	—	3	25	19	7	6	3	—	—	0	1	1	0	1	1	Alcoholism	39	—	—	1	10	22	4	—	2	—	—	0	1	2	0	—	1
13,826	13	36	121	348	1,205	2,967	2,381	6,755	1	2	3	11	47	196	519	1428	Cerebral hæmorrhage, etc. ..	6,696	8	13	47	144	583	1,460	1,187	3,254	1	1	3	10	48	181	461	1422
5,019	197	245	503	656	816	1,070	519	1,013	12	13	14	20	32	71	113	214	Other dis. of the nervous system	2,566	149	144	274	312	430	516	271	470	14	15	18	22	35	64	105	205
12,048	172	271	714	1,097	1,759	2,780	1,757	3,498	11	15	20	34	69	184	383	739	Valvular disease of heart ..	6,506	97	160	357	562	930	1,583	970	1,847	9	16	23	40	76	196	377	807
15,125	121	186	616	860	1,481	3,175	2,404	6,282	7	10	17	27	58	210	524	1328	Other heart disease	7,639	69	117	259	421	851	1,563	1,224	3,135	6	12	17	30	70	193	476	1370
8.482	2	1	17	81	397	1,454	1,437	5,093	0	0	0	3	16	96	313	1077	Arterio-sclerosis	4,105	—	—	5	33	199	701	688	2,479	—	—	0	2	16	87	267	1084
426	7	4	22	46	84	102	49	112	0	0	1	1	3	7	11	24	Other dis. of circulatory system	214	5	7	9	18	46	55	25	49	0	1	1	1	4	7	10	21
16,181	16	51	173	517	1,271	2,860	2,442	8,851	1	3	5	16	50	189	532	1871	Bronchitis..	9,252	15	41	126	366	804	1,818	1,464	4,618	1	4	8	26	66	225	569	2019
12,038	324	489	1,300	2,023	2,321	2,320	1,185	2,076	20	27	37	63	91	153	258	439	Pneumonia	6,769	239	305	696	1,114	1,336	1,407	708	964	22	31	45	80	109	174	275	421
245	1	1	6	30	70	81	33	23	0	0	0	1	3	5	7	5	Chronic interstitial pneumonia ..	96	—	2	3	11	23	35	12	10	—	0	0	1	2	4	5	4
2,745	34	51	155	295	481	615	359	755	2	3	4	9	19	41	78	160	Other dis. of respiratory system	1,482	25	33	93	166	261	326	200	378	2	3	6	12	21	40	78	165
1,328	14	36	133	353	320	277	97	98	1	2	4	11	13	18	21	21	Ulcer of stomach	702	14	31	84	155	179	135	53	51	1	3	5	11	15	17	21	22
679	10	25	82	161	179	138	51	33	1	1	2	5	7	9	11	7	Ulcer of duodenum	331	5	17	34	77	96	62	25	15	0	2	2	6	8	8	10	7
1,225	191	174	204	208	181	158	52	57	12	9	6	6	7	10	11	12	Appendicitis	545	96	67	87	72	94	77	33	19	9	7	6	5	8	10	13	8
768	4	13	16	36	109	165	116	309	0	1	0	1	4	11	25	65	Hernia	442	5	8	10	26	56	100	50	187	0	1	1	2	5	12	19	82
874	35	43	71	77	127	175	107	239	2	2	2	2	5	12	23	51	Intestinal obstruction	478	33	25	37	42	76	110	52	103	3	3	2	3	6	14	20	45
993	2	3	12	67	263	331	162	153	0	0	0	2	10	22	35	32	Cirrhosis of liver	499	1	—	8	49	144	153	73	71	0	—	1	4	12	19	28	31
3,056	58	75	160	299	483	691	368	922	4	4	5	9	19	46	80	195	Other dis. of digestive system ..	1,475	46	47	75	136	227	317	177	450	4	5	5	10	19	39	69	197
630	34	50	78	109	140	127	37	55	2	3	2	3	6	8	8	12	Acute nephritis	285	21	30	32	39	53	54	26	30	2	3	2	3	4	7	10	13
6,052	46	92	314	519	1,032	1,623	829	1,597	3	5	9	16	41	107	181	338	Chronic nephritis..	2,786	35	58	152	245	481	725	423	667	3	6	10	18	39	90	164	292
2,175	—	—	4	4	42	328	409	1,388	—	—	0	0	2	22	89	293	Diseases of the prostate ..	975	—	—	1	4	21	130	187	632	—	—	0	0	2	16	73	276
1,675	6	25	67	119	237	348	226	647	0	1	2	4	9	23	49	137	Other genito-urinary diseases ..	927	8	14	43	61	153	191	134	323	1	1	3	4	13	24	52	141
12,102	—	—	—	—	3	148	536	11,415	—	—	—	—	0	10	117	2413	Old age	6,745	—	—	—	—	4	75	285	6,381	—	—	—	—	0	9	111	2789
3,057	50	117	299	580	746	707	276	282	3	6	8	18	29	47	60	60	Suicide	1,446	29	60	149	220	343	374	141	130	3	6	10	16	28	46	55	57
7,186	505	634	1,163	1,189	1,256	1,070	420	949	31	34	33	37	49	71	91	201	Accident	4,776	514	443	646	701	821	837	323	491	47	45	42	50	67	104	126	215
7,479	366	401	776	1,008	1,314	1,564	805	1,245	—	—	—	—	—	—	—	—	Other causes	3,988	236	223	390	456	661	795	415	812	—	—	—	—	—	—	—	—
193,225	3,930	6,392	13,404	19,042	27,173	37,979	22,900	62,405	243	347	380	590	1070	2508	4987	13193	All causes	100,417	2,711	3,608	6,487	9,350	14,324	20,070	12,067	31,800	248	367	420	669	1173	2482	4691	13900
15,203,946	1,615,614	1,843,026	3,530,649	3,227,925	2,540,427	1,514,118	459,159	473,028									Years of life (Census population × 3)	7,533,657	1,092,936	983,781	1,543,674	1,397,121	1,221,507	808,635	257,226	228,777								
—	98	99	95	92	93	98	100	97									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	100	104	105	105	101	97	94	102								

SOCIAL CLASS III.

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 951
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 95

SOCIAL CLASS IV.

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,007
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 101

SOCIAL CLASS V.—UNSKILLED WORKERS (Civilians only).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	2,520	59	64	220	303	447	580	330	517	11	12	24	33	49	92	154	323
Respiratory tuberculosis	9,301	484	825	1,470	2,197	2,347	1,433	348	197	89	158	161	238	256	228	162	123
Other tuberculosis	727	123	107	119	110	103	93	37	35	23	20	13	12	11	15	17	22
Syphilis, etc.	1,607	5	8	73	393	546	397	108	77	1	2	8	43	60	63	50	48
Syphilis	220	5	5	16	43	71	53	12	15	1	1	2	5	8	8	6	9
Tabes dorsalis	278	—	—	5	45	88	83	34	23	—	—	1	5	10	13	16	14
General paralysis of insane	704	—	2	48	255	246	121	23	9	—	0	5	28	27	19	11	6
Aneurysm	405	—	1	4	50	141	140	39	30	—	0	0	5	15	22	18	19
Cancer, all sites	10,525	17	24	116	470	1,931	3,743	1,914	2,310	3	5	13	51	211	596	891	1445
Skin	415	—	—	2	23	66	98	65	161	—	—	0	2	7	16	30	101
Lip	188	—	—	1	1	15	51	35	85	—	—	0	0	2	8	16	53
Tongue	811	—	—	—	22	163	321	134	171	—	—	—	2	18	51	62	107
Œsophagus	816	—	1	2	18	155	342	154	144	—	0	0	2	17	54	72	90
Stomach	2,414	1	4	30	129	469	892	405	484	0	1	3	14	51	142	189	303
Other sites	5,881	16	19	81	277	1,063	2,039	1,121	1,265	3	4	9	30	116	325	522	791
Chronic rheumatism, etc., Gout	392	—	1	7	7	46	88	83	160	—	0	1	1	5	14	39	100
Diabetes	451	15	22	47	48	98	91	57	73	3	4	5	5	11	14	27	46
Alcoholism	37	—	—	1	9	8	13	4	2	—	—	0	1	1	2	2	1
Cerebral hæmorrhage, etc.	5,337	3	10	38	135	492	1,262	1,039	2,358	1	2	4	15	54	201	484	1475
Other dis. of the nervous system	2,208	98	113	229	282	399	462	244	381	18	22	25	31	44	74	114	238
Valvular disease of heart	5,397	79	111	292	461	873	1,363	878	1,340	15	21	32	50	95	217	409	838
Other heart disease	6,664	57	67	207	380	791	1,486	1,154	2,522	10	13	23	41	86	237	537	1577
Arterio-sclerosis	3,868	—	—	6	36	211	700	781	2,134	—	—	1	4	23	111	364	1335
Other dis. of circulatory system	161	2	5	4	23	32	41	20	34	0	1	0	2	3	7	9	21
Bronchitis	8,967	9	20	91	376	999	1,963	1,656	3,853	2	4	10	41	109	313	771	2410
Pneumonia	6,691	131	215	557	1,023	1,408	1,579	791	987	24	41	61	111	154	251	368	617
Chronic interstitial pneumonia	59	—	—	2	5	20	19	11	2	—	—	0	1	2	3	5	1
Other dis. of respiratory system	1,231	16	25	59	141	241	305	154	290	3	5	6	15	26	49	72	181
Ulcer of stomach	578	9	15	49	128	181	122	47	27	2	3	5	14	20	19	22	17
Ulcer of duodenum	268	2	10	31	77	70	55	13	10	0	2	3	8	8	9	6	6
Appendicitis	328	60	44	48	38	57	47	23	11	11	8	5	4	6	7	11	7
Hernia	348	1	2	7	24	54	81	62	117	0	0	1	3	6	13	29	73
Intestinal obstruction	374	12	14	20	42	60	91	48	87	2	3	2	5	7	14	22	54
Cirrhosis of liver	461	2	1	9	37	112	169	73	58	0	0	1	4	12	27	34	36
Other dis. of digestive system	1,200	28	33	75	107	211	282	145	319	5	6	8	12	23	45	68	199
Acute nephritis	233	9	11	27	44	47	45	23	27	2	2	3	5	5	7	11	17
Chronic nephritis	2,413	20	33	81	197	449	665	401	567	4	6	9	21	49	106	187	355
Diseases of the prostate	702	1	—	—	2	10	124	143	422	0	—	—	0	1	20	67	264
Other genito-urinary diseases	808	—	8	30	72	130	198	125	245	—	2	3	8	14	32	58	153
Old age	5,266	—	—	—	—	4	140	343	4,779	—	—	—	—	0	22	160	2989
Suicide	1,150	17	32	91	183	297	289	124	117	3	6	10	20	32	46	58	73
Accident	3,070	207	196	325	455	617	598	264	408	38	37	36	49	67	95	123	255
Other causes	2,959	161	118	210	308	527	699	365	571	—	—	—	—	—	—	—	—
All causes	86,301	1,627	2,134	4,541	8,113	13,818	19,223	11,808	25,037	299	408	498	880	1507	3061	5498	15658
Years of life (Census population × [illegible]	4,820,202	543,315	523,326	912,447	921,513	916,872	628,053	214,776	159,900								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	121	116	125	138	130	119	110	115								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,258
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	125

OCCUPATIONAL GROUP 1.—FARMERS AND THEIR RELATIVES RETURNED AS ASSISTING IN THE WORK OF THE FARM (011, 012).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	565	2	5	35	48	57	68	85	265	3	6	20	25	29	43	141	297
Respiratory tuberculosis	578	9	39	111	126	122	100	46	25	13	49	65	65	62	63	76	28
Other tuberculosis	121	2	7	27	21	28	22	4	10	3	9	16	11	14	14	7	11
Syphilis, etc.	104	—	—	—	12	22	31	17	22	—	—	—	6	11	19	28	25
Syphilis	9	—	—	—	1	3	2	3	—	—	—	—	1	2	1	5	—
Tabes dorsalis	26	—	—	—	2	4	7	6	7	—	—	—	1	2	4	10	8
General paralysis of insane	35	—	—	—	7	11	7	5	5	—	—	—	4	6	4	8	6
Aneurysm	34	—	—	—	2	4	15	3	10	—	—	—	1	2	9	5	11
Cancer, all sites	2,289	1	5	18	77	223	546	415	1,004	1	6	10	40	114	342	690	1124
Skin	99	—	—	—	—	2	15	17	65	—	—	—	—	1	9	28	73
Lip	56	—	—	—	—	2	9	7	38	—	—	—	—	1	6	12	43
Tongue	39	—	—	—	1	5	15	4	14	—	—	—	1	3	9	7	16
Œsophagus	89	—	—	—	2	4	26	14	43	—	—	—	1	2	16	23	48
Stomach	623	—	—	5	18	74	150	109	267	—	—	3	9	38	94	181	299
Other sites	1,383	1	5	13	56	136	331	264	577	1	6	8	29	69	207	439	646
Chronic rheumatism, etc., Gout	116	—	—	—	2	3	15	20	76	—	—	—	1	2	9	33	85
Diabetes	297	—	3	14	19	36	66	53	106	—	4	8	10	18	41	88	119
Alcoholism	20	—	—	2	3	8	6	1	—	—	—	1	2	4	4	2	—
Cerebral hæmorrhage, etc.	1,600	1	3	3	20	67	216	204	1,086	1	4	2	10	34	135	339	1217
Other dis. of the nervous system	407	9	10	21	38	64	86	62	117	13	12	12	20	33	54	103	131
Valvular disease of heart	1,364	1	5	32	42	91	229	235	729	1	6	19	22	46	143	391	817
Other heart disease	1,860	2	3	17	43	81	259	268	1,187	3	4	10	22	41	162	445	1330
Arterio-sclerosis	988	—	—	—	3	18	86	107	774	—	—	—	2	9	54	178	867
Other dis. of circulatory system	49	—	1	2	3	3	10	10	20	—	1	1	2	2	6	17	22
Bronchitis	1,095	—	2	6	7	27	62	90	901	—	2	3	4	14	39	150	1009
Pneumonia	859	1	9	41	91	125	149	104	339	1	11	24	47	64	93	173	380
Chronic interstitial pneumonia	21	—	—	—	2	3	6	5	5	—	—	—	1	2	4	8	6
Other dis. of respiratory system	284	—	4	8	12	21	45	35	159	—	5	5	6	11	28	58	178
Ulcer of stomach	102	1	1	6	18	22	29	6	19	1	1	3	9	11	18	10	21
Ulcer of duodenum	60	—	—	5	6	14	19	7	9	—	—	3	3	7	12	12	19
Appendicitis	137	4	10	19	21	29	32	8	14	6	12	11	11	15	20	13	16
Hernia	74	—	—	—	1	3	11	13	46	—	—	—	1	2	7	22	52
Intestinal obstruction	103	—	2	3	7	11	21	10	49	—	2	2	4	6	13	17	55
Cirrhosis of liver	120	—	—	2	8	23	35	29	23	—	—	1	4	12	22	48	26
Other dis. of digestive system	333	1	2	7	23	40	65	26	169	1	2	4	12	20	41	43	189
Acute nephritis	40	—	1	3	5	8	10	1	12	—	1	2	3	4	6	2	13
Chronic nephritis	599	—	3	10	21	72	115	92	286	—	4	6	11	37	72	153	320
Diseases of the prostate	409	—	—	—	1	1	30	54	323	—	—	—	1	1	19	90	362
Other genito-urinary diseases	205	—	1	3	10	12	23	24	132	—	1	2	5	6	14	40	148
Old age	2,094	—	—	—	—	1	3	29	2,061	—	—	—	—	1	2	48	2309
Suicide	311	2	8	28	50	81	76	34	32	3	10	16	26	41	48	56	36
Accident	467	11	16	44	64	80	85	34	133	16	20	26	33	41	53	56	149
Other causes	754	14	17	48	56	98	179	116	226	—	—	—	—	—	—	—	—
All causes	18,425	61	157	515	860	1,494	2,735	2,244	10,359	88	196	300	447	761	1713	3729	11603
Years of life (Census population × [illegible]	1,018,755	69,057	80,226	171,513	192,477	196,329	159,699	60,177	89,277								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	36	56	75	70	66	67	75	85								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	674
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	67

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

OCCUPATIONAL GROUP 2.—GARDENERS AND THEIR LABOURERS (013, 025).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	366	4	6	11	23	37	73	53	159	7	13	12	22	29	63	110	261
Respiratory tuberculosis	591	19	76	133	110	99	87	31	36	32	162	144	103	77	75	64	59
Other tuberculosis	68	4	9	6	11	14	11	6	7	7	19	6	10	11	10	12	11
Syphilis, etc.	105	1	—	8	13	31	33	15	9	2	—	3	12	24	29	31	15
Syphilis	9	—	—	—	2	1	4	2	—	—	—	—	2	1	3	4	—
Tabes dorsalis	17	—	—	—	1	2	6	5	3	—	—	—	1	2	5	10	5
General paralysis of insane	34	1	—	2	6	14	7	3	1	2	—	2	6	11	6	6	2
Aneurysm	45	—	—	1	4	14	16	5	5	—	—	1	4	11	14	10	8
Cancer, all sites	1,763	1	3	9	36	168	534	309	703	2	6	10	34	131	463	643	1153
Skin	66	—	1	—	—	2	10	14	39	—	2	—	—	2	9	29	64
Lip	30	—	—	—	1	1	5	5	18	—	—	—	1	1	4	10	30
Tongue	86	—	—	—	1	7	33	17	28	—	—	—	1	5	29	35	46
Œsophagus	127	—	—	—	3	17	34	31	42	—	—	—	3	13	29	64	69
Stomach	368	—	—	2	3	49	99	80	135	—	—	2	3	38	86	166	221
Other sites	1,086	1	2	7	28	92	353	162	441	2	4	8	26	72	306	337	723
Chronic rheumatism, etc., Gout	62	—	—	—	1	3	12	8	38	—	—	—	1	2	10	17	62
Diabetes	96	1	1	4	8	13	15	21	33	2	2	4	8	10	13	44	54
Alcoholism	2	—	—	—	1	1	—	—	—	—	—	—	1	1	—	—	—
Cerebral hæmorrhage, etc.	970	1	1	2	4	29	135	142	656	2	2	2	4	23	117	295	1076
Other dis. of the nervous systm	301	6	13	23	19	32	68	33	107	10	28	25	18	25	59	69	175
Valvular disease of heart	911	4	7	24	30	74	177	160	435	7	15	26	28	58	154	333	713
Other heart disease	1,114	6	5	18	27	59	175	163	661	10	11	19	25	46	152	339	1084
Arterio-sclerosis	637	—	—	—	2	6	61	89	479	—	—	—	2	5	53	185	786
Other dis. of circulatory system	29	1	—	—	2	3	7	2	14	2	—	—	2	2	6	4	23
Bronchitis	1,057	—	1	4	7	17	93	124	811	—	2	4	7	13	81	258	1330
Pneumonia	550	3	7	24	43	74	82	116	201	5	15	26	40	58	71	241	330
Chronic interstitial pneumonia	6	—	—	—	2	1	1	2	—	—	—	—	2	1	1	4	—
Other dis. of respiratory system	167	—	1	5	5	17	27	18	94	—	2	5	5	13	23	37	154
Ulcer of stomach	71	—	1	—	7	16	22	11	14	—	2	—	7	12	19	23	23
Ulcer of duodenum	36	—	—	2	7	6	9	5	7	—	—	2	7	5	8	10	11
Appendicitis	59	8	6	9	8	6	12	5	5	14	13	10	8	5	10	10	8
Hernia	65	—	—	—	2	3	11	10	39	—	—	—	2	2	10	21	64
Intestinal obstruction	67	1	1	2	2	5	13	12	31	2	2	2	2	4	11	25	51
Cirrhosis of liver	43	—	—	—	—	5	20	4	14	—	—	—	—	4	17	8	23
Other dis. of digestive system	194	2	—	5	11	20	40	25	91	3	—	5	10	16	35	52	149
Acute nephritis	23	—	—	1	5	1	5	4	7	—	—	1	5	1	4	8	11
Chronic nephritis	345	2	9	3	11	19	76	57	168	3	19	3	10	15	66	119	276
Diseases of the prostate	224	—	—	—	—	3	24	43	154	—	—	—	—	2	21	89	253
Other genito-urinary diseases	145	—	—	1	5	11	21	18	89	—	—	1	5	9	18	37	146
Old age	1,255	—	—	—	—	—	8	25	1,222	—	—	—	—	—	7	52	2004
Suicide	173	1	5	14	16	40	48	20	29	2	11	15	15	31	42	42	48
Accident	231	11	4	13	14	37	44	27	81	19	9	14	13	29	38	56	133
Other causes	433	11	10	22	27	51	97	76	139	—	—	—	—	—	—	—	—
All causes	12,159	87	166	338	459	901	2,041	1,634	6,533	149	353	365	432	704	1770	3399	10714
Years of life (Census population × 3)	656,838	58,572	47,043	92,514	106,293	128,067	115,302	48,072	60,975								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	60	100	91	68	61	69	68	79								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	707
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	69

OCCUPATIONAL GROUP 3.—FARM BAILIFFS AND FOREMEN (015).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	28	—	1	—	6	4	3	5	9	—	40	—	33	21	26	169	267
Respiratory tuberculosis	29	1	1	2	8	10	4	2	1	216	40	17	44	53	34	68	30
Other tuberculosis	2	—	—	—	—	—	2	—	—	—	—	—	—	—	17	—	—
Syphilis, etc.	8	—	—	1	3	3	—	1	—	—	—	8	16	16	—	34	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	4	—	—	1	1	2	—	—	—	—	—	8	5	11	—	—	—
General paralysis of insane	2	—	—	—	1	1	—	—	—	—	—	—	5	5	—	—	—
Aneurysm	2	—	—	—	1	—	—	1	—	—	—	—	5	—	—	34	—
Cancer, all sites	159	—	—	—	6	21	42	27	63	—	—	—	33	112	361	914	1869
Skin	11	—	—	—	—	—	2	—	9	—	—	—	—	—	17	—	267
Lip	4	—	—	—	—	—	—	—	4	—	—	—	—	—	—	—	119
Tongue	2	—	—	—	—	1	—	1	—	—	—	—	—	5	—	34	—
Œsophagus	5	—	—	—	1	—	1	3	—	—	—	—	5	—	9	102	—
Stomach	32	—	—	—	1	6	8	9	8	—	—	—	5	32	69	305	237
Other sites	105	—	—	—	4	14	31	14	42	—	—	—	22	74	267	474	1246
Chronic rheumatism, etc., Gout	4	—	—	—	—	—	—	1	3	—	—	—	—	—	—	34	89
Diabetes	16	—	—	1	—	1	—	3	11	—	—	8	—	5	—	102	326
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	79	—	—	—	1	4	11	9	54	—	—	—	5	21	95	305	1602
Other dis. of the nervous systm	26	—	—	—	3	4	10	1	8	—	—	—	16	21	86	34	237
Valvular disease of heart	86	—	—	—	2	7	19	10	48	—	—	—	11	37	164	338	1424
Other heart disease	111	—	—	2	4	5	14	15	71	—	—	17	22	27	120	508	2106
Arterio-sclerosis	66	—	—	—	—	—	4	10	52	—	—	—	—	—	34	338	1542
Other dis. of circulatory system	4	—	—	—	—	—	1	1	2	—	—	—	—	—	9	34	59
Bronchitis	78	—	—	—	—	2	7	8	61	—	—	—	—	11	60	271	1809
Pneumonia	52	—	—	3	6	13	12	1	17	—	—	25	33	69	103	34	504
Chronic interstitial pneumonia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	9	—	—
Other dis. of respiratory system	10	—	—	—	—	—	1	1	8	—	—	—	—	—	9	34	237
Ulcer of stomach	8	—	—	1	1	3	—	2	1	—	—	8	5	16	—	68	30
Ulcer of duodenum	3	—	—	—	1	—	2	—	—	—	—	—	5	—	17	—	—
Appendicitis	7	—	—	—	2	1	—	1	3	—	—	—	11	5	—	34	89
Hernia	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	34	59
Intestinal obstruction	6	—	—	—	1	2	2	—	1	—	—	—	5	11	17	—	30
Cirrhosis of liver	2	—	—	—	—	1	1	—	—	—	—	—	—	5	9	—	—
Other dis. of digestive system	19	—	—	—	1	1	5	—	12	—	—	—	5	5	43	—	356
Acute nephritis	3	—	—	—	1	1	—	—	1	—	—	—	5	5	—	—	30
Chronic nephritis	33	—	—	—	—	3	10	4	16	—	—	—	—	16	86	135	474
Diseases of the prostate	20	—	—	—	—	1	2	3	14	—	—	—	—	5	17	102	415
Other genito-urinary diseases	10	—	—	—	1	—	1	3	5	—	—	—	5	—	9	102	148
Old age	122	—	—	—	—	—	—	2	120	—	—	—	—	—	—	68	3559
Suicide	22	—	—	5	3	5	5	2	2	—	—	42	16	27	43	68	59
Accident	34	—	1	1	9	5	7	1	10	—	40	8	49	27	60	34	297
Other causes	49	—	—	2	4	10	17	4	12	—	—	—	—	—	—	—	—
All causes	1,100	1	3	18	63	107	183	118	607	216	121	151	345	569	1575	3993	18001
Years of life (Census population × 3)	69,849	462	2,481	11,907	18,240	18,813	11,619	2,955	3,372								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	87	34	38	54	49	61	80	132								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	526
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	54

OCCUPATIONAL GROUP 4.—WOODMEN AND LABOURERS IN WOODS AND FORESTS (016, 027).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	13	—	—	—	1	4	2	1	5	—	—	—	16	54	33	43	171
Respiratory tuberculosis	30	—	6	6	5	6	6	—	1	—	223	112	79	81	98	—	34
Other tuberculosis	5	—	—	1	2	—	—	1	1	—	—	19	32	—	—	43	34
Syphilis, etc.	8	—	—	—	—	4	2	2	—	—	—	—	—	54	33	86	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	2	—	—	—	—	1	1	—	—	—	—	—	—	14	16	—	—
General paralysis of insane	3	—	—	—	—	3	—	—	—	—	—	—	—	41	—	—	—
Aneurysm	3	—	—	—	—	—	1	2	—	—	—	—	—	—	16	86	—
Cancer, all sites	81	—	—	—	3	9	22	14	33	—	—	—	47	122	360	604	1132
Skin	4	—	—	—	—	—	1	—	3	—	—	—	—	—	16	—	103
Lip	5	—	—	—	—	1	1	1	2	—	—	—	—	14	16	43	69
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	2	—	—	—	—	—	1	1	—	—	—	—	—	—	16	43	—
Stomach	17	—	—	—	1	3	7	2	4	—	—	—	16	41	114	86	137
Other sites	53	—	—	—	2	5	12	10	24	—	—	—	32	68	196	432	823
Chronic rheumatism, etc., Gout	5	—	—	—	—	—	—	1	4	—	—	—	—	—	—	43	137
Diabetes	7	—	—	—	2	1	—	—	4	—	—	—	32	14	—	—	137
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	51	—	—	—	—	2	6	4	39	—	—	—	—	27	98	173	1337
Other dis. of the nervous system	13	2	1	1	1	1	2	1	4	95	37	19	16	14	33	43	137
Valvular disease of heart	56	—	—	—	1	4	8	12	31	—	—	—	16	54	131	518	1063
Other heart disease	71	—	—	1	5	4	7	11	43	—	—	19	79	54	114	475	1475
Arterio-sclerosis	35	—	—	—	—	1	2	6	26	—	—	—	—	14	33	259	892
Other dis. of circulatory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	34
Bronchitis	45	—	—	—	—	—	4	8	33	—	—	—	—	—	65	345	1132
Pneumonia	17	—	1	—	3	2	1	3	7	—	37	—	47	27	16	130	240
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	8	—	—	—	—	—	5	—	3	—	—	—	—	—	82	—	103
Ulcer of stomach	4	—	—	—	1	—	2	1	—	—	—	—	16	—	33	43	—
Ulcer of duodenum	3	—	—	—	—	2	1	—	—	—	—	—	—	27	16	—	—
Appendicitis	3	—	—	1	1	—	—	—	1	—	—	19	16	—	—	—	34
Hernia	3	—	—	—	—	—	1	—	2	—	—	—	—	—	16	—	69
Intestinal obstruction	3	—	—	—	—	—	1	—	2	—	—	—	—	—	16	—	69
Cirrhosis of liver	2	—	—	—	—	1	—	—	1	—	—	—	—	14	—	—	34
Other dis. of digestive system	9	1	—	—	1	2	—	1	4	47	—	—	16	27	—	43	137
Acute nephritis	3	—	—	—	—	1	—	—	2	—	—	—	—	14	—	—	69
Chronic nephritis	17	—	—	—	1	—	2	4	10	—	—	—	16	—	33	173	343
Diseases of the prostate	10	—	—	—	—	1	3	—	6	—	—	—	—	14	49	—	206
Other genito-urinary diseases	5	—	—	1	—	1	1	1	1	—	—	19	—	14	16	43	34
Old age	100	—	—	—	—	—	1	1	98	—	—	—	—	—	16	43	3361
Suicide	7	—	1	—	—	5	1	—	—	—	37	—	—	68	16	—	—
Accident	27	—	3	4	1	6	7	—	6	—	111	75	16	81	114	—	206
Other causes	29	1	—	2	2	7	4	4	9	—	—	—	—	—	—	—	—
All causes	671	4	12	17	30	64	91	76	377	189	446	318	474	864	1488	3282	12929
Years of life (Census population × 3)	35,232	2,112	2,691	5,352	6,327	7,404	6,114	2,316	2,916								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	77	127	80	74	75	58	66	95								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 714

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 68

OCCUPATIONAL GROUP 5.—AGRICULTURAL LABOURERS (including Shepherds) (020, 022–4).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	802	21	32	37	69	78	146	120	299	8	16	13	27	32	71	152	325
Respiratory tuberculosis	1,222	99	209	296	192	195	145	48	38	39	106	106	76	80	70	61	41
Other tuberculosis	217	37	32	50	28	29	26	7	8	14	16	18	11	12	13	9	9
Syphilis, etc.	153	—	2	9	19	47	39	19	18	—	1	3	8	19	19	24	20
Syphilis	16	—	—	4	3	3	2	1	3	—	—	1	1	1	1	1	3
Tabes dorsalis	27	—	—	—	2	8	11	4	2	—	—	—	1	3	5	5	2
General paralysis of insane	57	—	1	3	10	22	17	2	2	—	1	1	4	9	8	3	2
Aneurysm	53	—	1	2	4	14	9	12	11	—	1	1	2	6	4	15	12
Cancer, all sites	2,721	9	7	25	61	266	744	466	1,143	4	4	9	24	109	361	589	1242
Skin	163	—	—	1	2	11	31	18	100	—	—	0	1	5	15	23	109
Lip	128	—	—	—	1	5	28	12	82	—	—	—	0	2	14	15	89
Tongue	77	—	—	1	—	11	23	10	32	—	—	0	—	5	11	13	35
Œsophagus	129	—	—	—	—	22	43	31	33	—	—	—	—	9	21	39	36
Stomach	696	1	—	3	21	75	205	133	258	0	—	1	8	31	99	168	280
Other sites	1,528	8	7	20	37	142	414	262	638	3	4	7	15	58	201	331	693
Chronic rheumatism, etc., Gout	151	—	—	—	3	5	27	30	86	—	—	—	1	2	13	38	93
Diabetes	143	4	13	15	16	11	27	12	45	2	7	5	6	5	13	15	49
Alcoholism	8	—	—	—	2	4	1	—	1	—	—	—	1	2	0	—	1
Cerebral hæmorrhage, etc.	1,785	2	3	8	21	64	228	271	1,188	1	2	3	8	26	111	343	1291
Other dis. of the nervous system	644	28	37	69	58	83	119	66	184	11	19	25	23	34	58	83	200
Valvular disease of heart	1,631	12	25	37	66	116	311	273	791	5	13	13	26	48	151	345	860
Other heart disease	2,162	10	17	34	52	111	321	347	1,270	4	9	12	21	46	156	439	1380
Arterio-sclerosis	1,159	—	—	—	2	15	96	136	910	—	—	—	1	6	47	172	989
Other dis. of circulatory system	44	1	2	—	—	5	13	5	18	0	1	—	—	2	6	6	20
Bronchitis	2,154	2	6	4	24	52	220	274	1,572	1	3	1	9	21	107	346	1708
Pneumonia	1,061	20	47	73	108	154	224	151	284	8	24	26	43	63	109	191	309
Chronic interstitial pneumonia	11	—	—	1	2	3	2	2	1	—	—	0	1	1	1	3	1
Other dis. of respiratory system	305	6	5	6	22	27	68	44	127	2	3	2	9	11	33	56	138
Ulcer of stomach	101	2	5	8	12	17	26	12	19	1	3	3	5	7	13	15	21
Ulcer of duodenum	59	2	1	1	13	14	17	7	4	1	1	0	5	6	8	9	4
Appendicitis	102	21	9	13	12	15	13	13	6	8	5	5	5	6	6	16	7
Hernia	137	1	2	5	5	15	22	15	72	0	1	2	2	6	11	19	78
Intestinal obstruction	136	10	2	5	9	17	33	21	39	4	1	2	4	7	16	27	42
Cirrhosis of liver	62	—	—	—	3	12	19	12	16	—	—	—	1	5	9	15	17
Other dis. of digestive system	351	6	8	12	12	31	60	39	183	2	4	4	5	13	29	49	199
Acute nephritis	49	4	7	4	4	8	10	4	8	2	4	1	2	3	5	5	9
Chronic nephritis	566	4	7	27	27	64	111	85	241	2	4	10	11	26	54	107	262
Diseases of the prostate	297	—	—	—	—	4	24	40	229	—	—	—	—	2	12	51	249
Other genito-urinary diseases	219	1	2	10	9	21	32	21	123	0	1	4	4	9	16	27	134
Old age	3,012	—	—	—	—	—	11	80	2,921	—	—	—	—	—	5	101	3174
Suicide	371	13	18	51	40	68	95	39	47	5	9	18	16	28	46	49	51
Accident	830	78	68	73	95	111	159	77	169	31	35	26	38	46	77	97	184
Other causes	1,029	44	39	74	67	113	174	134	384	—	—	—	—	—	—	—	—
All causes	23,694	437	605	947	1,053	1,775	3,563	2,870	12,444	171	307	340	416	730	1727	3628	13524
Years of life (Census population × 3)	1,604,286	255,525	196,947	278,406	252,903	243,096	206,295	79,098	92,016								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	69	87	85	65	63	67	73	100								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 688

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 69

OCCUPATIONAL GROUP 6.—COAL MINE—SUBORDINATE SUPERINTENDING STAFF (041).

Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.	CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
66	—	—	3	8	14	17	11	13	—	—	12	20	41	102	318	537	Influenza .. ..
77	—	4	11	18	22	17	3	2	—	96	45	46	65	102	87	83	Respiratory tuberculosis ..
9	—	—	1	2	4	2	—	—	—	—	4	5	12	12	—	—	Other tuberculosis .. ..
18	—	—	—	1	5	10	1	1	—	—	—	3	15	60	29	41	Syphilis, etc. .. .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Syphilis .. .. ..
3	—	—	—	—	—	2	1	—	—	—	—	—	—	12	29	—	Tabes dorsalis .. .. ..
8	—	—	—	—	4	4	—	—	—	—	—	—	12	24	—	—	General paralysis of insane
7	—	—	—	1	1	4	—	1	—	—	—	3	3	24	—	41	Aneurysm .. .. ..
192	—	—	4	11	41	69	26	41	—	—	17	28	121	413	752	1694	Cancer, all sites .. .. ..
13	—	—	—	—	2	3	1	7	—	—	—	—	6	18	29	289	Skin .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip .. ..
4	—	—	—	—	1	—	2	1	—	—	—	—	3	—	58	41	Tongue .. ..
8	—	—	—	1	1	3	1	2	—	—	—	3	3	18	29	83	Œsophagus .. .. ..
57	—	—	—	5	13	21	7	11	—	—	—	13	38	126	203	454	Stomach .. .. —
110	—	—	4	5	24	42	15	20	—	—	17	13	71	251	434	826	Other sites .. .. ..
3	—	—	—	—	—	2	1	—	—	—	—	—	—	12	29	—	Chronic rheumatism, etc., Gout
16	—	—	—	—	7	2	4	3	—	—	—	—	21	12	116	124	Diabetes .. ..
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism .. .. ..
37	—	—	—	3	15	36	24	59	—	—	—	8	44	215	694	2437	Cerebral hæmorrhage, etc. ..
38	2	—	2	6	11	10	3	4	198	—	8	15	33	60	87	165	Other dis. of the nervous system
99	—	1	2	3	14	30	13	36	—	24	8	8	41	180	376	1487	Valvular disease of heart ..
132	—	—	2	9	19	33	24	45	—	—	8	23	56	197	694	1859	Other heart disease .. ..
86	—	—	—	—	6	17	17	46	—	—	—	—	18	102	492	1900	Arterio-sclerosis .. .. ..
5	—	—	—	1	2	—	2	—	—	—	—	3	6	—	58	—	Other dis. of circulatory system
149	—	—	—	—	6	32	28	83	—	—	—	—	18	191	810	3428	Bronchitis.. .. .. ..
88	—	—	8	13	18	22	8	19	—	—	33	33	53	132	231	785	Pneumonia .. .. ..
3	—	—	—	—	1	2	—	—	—	—	—	—	3	12	—	—	Chronic interstitial pneumonia
40	—	—	—	2	11	13	5	9	—	—	—	5	33	78	145	372	Other dis. of respiratory system
9	—	—	1	5	1	1	1	—	—	—	4	13	3	6	29	—	Ulcer of stomach .. ..
7	—	—	1	2	2	1	1	—	—	—	4	5	6	6	29	—	Ulcer of duodenum .. ..
12	—	1	3	1	3	3	—	1	—	24	12	3	9	18	—	41	Appendicitis .. .. ..
6	—	—	—	—	—	2	—	4	—	—	—	—	—	12	—	165	Hernia .. ..
7	—	—	—	1	2	2	1	1	—	—	—	3	6	12	29	41	Intestinal obstruction .. ..
12	—	—	—	—	4	6	2	—	—	—	—	—	12	36	58	—	Cirrhosis of liver .. .. ..
31	—	—	4	4	7	3	4	9	—	—	17	10	21	18	116	372	Other dis. of digestive system ..
2	1	—	—	—	1	—	—	—	99	—	—	—	3	—	—	—	Acute nephritis .. .. ..
44	—	—	5	3	7	13	6	10	—	—	21	8	21	78	174	413	Chronic nephritis .. ..
15	—	—	—	—	—	1	3	11	—	—	—	—	—	6	87	454	Diseases of the prostate ..
15	—	—	2	2	2	5	1	3	—	—	8	5	6	30	29	124	Other genito-urinary diseases ..
117	—	—	—	—	—	2	3	112	—	—	—	—	—	12	87	4626	Old age .. ..
25	—	—	1	5	7	7	1	4	—	—	4	13	21	42	29	165	Suicide .. ..
164	—	3	27	40	51	28	5	10	—	72	112	102	151	168	145	413	Accident .. ..
84	—	1	7	11	27	20	5	13	—	—	—	—	—	—	—	—	Other causes .. .. ..
1,708	3	10	84	151	310	408	203	539	297	240	347	386	916	2441	5874	22264	All causes .. .. ..
124,878	1,011	4,164	24,207	39,072	33,834	16,713	3,456	2,421									Years of life (Census population × 3) .. ..
—	120	68	87	60	79	95	118	164									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	823
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	81

OCCUPATIONAL GROUP 7.—COAL MINE—HEWERS AND GETTERS (042).*

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	594	10	32	95	92	90	123	53	99	8	14	21	25	35	113	195	334
Respiratory tuberculosis ..	1,486	49	175	367	399	290	152	40	14	40	78	80	110	114	139	147	47
Other tuberculosis	168	14	25	54	30	21	18	5	1	11	11	12	8	8	16	18	3
Syphilis, etc.	275	—	—	27	76	95	58	12	7	—	—	6	21	37	53	44	24
Syphilis	19	—	—	4	6	6	2	—	1	—	—	1	2	2	2	—	3
Tabes dorsalis	50	—	—	1	9	17	16	4	3	—	—	0	2	7	15	15	10
General paralysis of insane	161	—	—	21	56	54	24	5	1	—	—	5	15	21	22	18	3
Aneurysm	45	—	—	1	5	18	16	3	2	—	—	0	1	7	15	11	7
Cancer, all sites	1,425	2	14	44	136	319	450	217	243	2	6	10	38	125	412	800	821
Skin	53	—	—	—	5	14	9	11	14	—	—	—	1	6	8	41	47
Lip	15	—	—	—	—	—	10	1	4	—	—	—	—	—	9	4	14
Tongue	54	—	—	—	3	22	16	8	5	—	—	—	1	9	15	29	17
Œsophagus	42	—	—	1	3	10	17	5	6	—	—	0	1	4	16	18	20
Stomach .. .. —	450	—	2	12	45	101	154	70	66	—	1	3	12	40	141	258	223
Other sites	811	2	12	31	80	172	244	122	148	2	5	7	22	68	224	450	500
Chronic rheumatism, etc., Gout	53	—	1	—	2	7	19	12	12	—	0	—	1	3	17	44	41
Diabetes	91	2	5	18	23	19	7	9	8	2	2	4	6	7	6	33	27
Alcoholism	4	—	—	1	1	2	—	—	—	—	—	0	0	1	—	—	—
Cerebral hæmorrhage, etc. ..	1,086	1	3	12	31	91	229	211	508	1	1	3	9	36	210	778	1716
Other dis. of the nervous system	447	9	16	62	69	90	92	47	62	7	7	14	19	35	84	173	209
Valvular disease of heart ..	870	14	17	60	99	157	209	115	199	11	8	13	27	62	192	424	672
Other heart disease	1,023	6	9	63	74	113	226	178	354	5	4	14	20	44	207	656	1196
Arterio-sclerosis	601	—	—	—	6	25	108	102	360	—	—	—	2	10	99	376	1216
Other dis. of circulatory system	18	—	2	4	3	2	2	3	2	—	1	1	1	1	2	11	7
Bronchitis..	1,842	1	4	17	43	141	384	332	920	1	2	4	12	55	352	1224	3107
Pneumonia	1,162	27	74	177	249	253	180	89	113	22	33	39	69	100	165	328	382
Chronic interstitial pneumonia	39	—	—	1	2	14	12	6	4	—	—	0	1	6	11	22	14
Other dis. of respiratory system	269	3	4	18	27	39	71	37	70	2	2	4	7	15	65	136	236
Ulcer of stomach	90	1	2	15	27	21	16	5	3	1	1	3	7	8	15	18	10
Ulcer of duodenum	60	—	5	18	15	14	5	1	2	—	2	4	4	6	5	4	7
Appendicitis	105	12	19	25	27	8	11	1	2	10	9	6	7	3	10	4	7
Hernia	45	—	—	4	2	12	9	8	10	—	—	1	1	5	8	29	34
Intestinal obstruction	66	2	6	2	9	9	15	6	17	2	3	0	2	4	14	22	57
Cirrhosis of liver	66	—	—	1	3	13	25	15	9	—	—	0	1	5	23	55	30
Other dis. of digestive system ..	256	1	13	20	24	45	51	27	75	1	6	4	7	18	47	100	253
Acute nephritis	68	5	8	9	9	18	11	4	4	4	4	2	2	7	10	15	14
Chronic nephritis	364	2	8	32	40	65	86	41	90	2	4	7	11	26	79	151	304
Diseases of the prostate ..	89	—	—	2	—	3	17	15	52	—	—	0	—	1	16	55	176
Other genito-urinary diseases ..	109	1	1	8	8	25	25	9	32	1	0	2	2	10	23	33	108
Old age	1,010	—	—	—	—	2	13	47	948	—	—	—	—	1	12	173	3202
Suicide	271	1	17	24	61	62	59	26	21	1	8	5	17	24	54	96	71
Accident	1,454	82	161	379	329	258	142	37	66	66	72	83	91	101	130	136	223
Other causes	679	19	43	103	124	151	123	48	68	—	—	—	—	—	—	—	—
All causes	16,185	264	664	1,662	2,040	2,474	2,948	1,758	4,375	213	297	364	563	973	2702	6482	14775
Years of life (Census population × 3)	1,585,752	123,840	223,254	456,531	362,052	254,244	109,101	27,120	29,610								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	86	84	91	88	84	105	130	109								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	938
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	92

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* For an analysis of the mortality of these workers in different parts of the country *see* pages 95–102.

OCCUPATIONAL GROUP 8.—COAL MINE—PERSONS CONVEYING MATERIAL TO THE SHAFT (043).

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	106	40	16	17	8	5	12	1	7	21	16	28	26	28	163	62	894
Respiratory tuberculosis	346	105	106	67	32	24	9	2	1	55	107	111	103	135	122	125	128
Other tuberculosis	73	36	29	6	1	1	—	—	—	19	29	10	3	6	—	—	—
Syphilis, etc.	24	—	1	5	7	6	3	2	—	—	1	8	22	34	41	125	—
Syphilis	3	—	—	—	—	1	2	—	—	—	—	—	—	6	27	—	—
Tabes dorsalis	2	—	—	—	—	1	—	1	—	—	—	—	—	6	—	62	—
General paralysis of insane	16	—	1	4	7	4	—	—	—	—	1	7	22	22	—	—	—
Aneurysm	3	—	—	1	—	—	1	1	—	—	—	2	—	—	14	62	—
Cancer, all sites	103	8	4	4	14	24	28	11	10	4	4	7	45	135	381	687	1277
Skin	4	—	—	1	—	—	1	—	2	—	—	2	—	—	14	—	255
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	5	—	—	—	—	2	2	—	1	—	—	—	—	11	27	—	128
Œsophagus	6	—	—	—	—	3	—	2	1	—	—	—	—	17	—	125	128
Stomach	21	1	—	1	2	5	10	2	—	1	—	2	6	28	136	125	—
Other sites	67	7	4	2	12	14	15	7	6	4	4	3	38	79	204	437	766
Chronic rheumatism, etc., Gout	2	—	1	1	—	—	—	—	—	—	1	2	—	—	—	—	—
Diabetes	27	8	5	7	3	—	2	1	1	4	5	12	10	—	27	62	128
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	76	1	1	3	4	12	18	12	25	1	1	5	13	67	245	749	3193
Other dis. of the nervous system	81	26	10	11	9	14	8	—	3	14	10	16	29	79	109	—	383
Valvular disease of heart	114	22	18	11	19	14	19	5	6	12	18	16	61	79	258	312	766
Other heart disease	88	8	11	13	15	6	21	6	8	4	11	22	48	34	285	375	1022
Arterio-sclerosis	17	—	—	—	—	3	2	1	11	—	—	—	—	17	27	62	1405
Other dis. of circulatory system	5	2	—	—	—	2	1	—	—	1	—	—	—	11	14	—	—
Bronchitis	81	2	2	6	9	11	25	12	14	1	2	10	29	62	340	749	1788
Pneumonia	176	55	37	25	21	15	15	4	4	29	37	42	67	84	204	250	511
Chronic interstitial pneumonia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	62	—
Other dis. of respiratory system	34	4	5	3	5	6	6	3	2	2	5	5	16	34	82	187	255
Ulcer of stomach	22	5	2	5	5	3	1	1	—	3	2	8	16	17	14	62	—
Ulcer of duodenum	6	1	2	1	2	—	—	—	—	1	2	2	6	—	—	—	—
Appendicitis	32	13	10	6	2	1	—	—	—	7	10	10	6	6	—	—	—
Hernia	9	2	2	1	—	3	1	—	—	1	2	2	—	17	14	—	—
Intestinal obstruction	19	5	3	5	3	3	—	—	—	3	3	8	10	17	—	—	—
Cirrhosis of liver	5	—	—	—	2	2	1	—	—	—	—	—	6	11	14	—	—
Other dis. of digestive system	33	8	4	3	7	2	6	2	1	4	4	5	22	11	82	125	128
Acute nephritis	12	2	4	—	3	1	2	—	—	1	4	—	10	6	27	—	—
Chronic nephritis	46	7	5	11	7	5	4	6	1	4	5	16	22	28	54	375	128
Diseases of the prostate	9	—	—	—	—	1	3	2	3	—	—	—	—	6	41	125	383
Other genito-urinary diseases	14	2	1	2	1	2	3	1	2	1	1	3	3	11	41	62	255
Old age	26	—	—	—	—	—	1	1	24	—	—	—	—	—	14	62	3065
Suicide	36	3	6	7	7	8	2	3	—	2	6	12	22	45	27	187	—
Accident	503	191	97	82	59	51	19	4	—	100	98	136	189	287	258	250	—
Other causes	141	48	36	18	11	11	10	3	4	—	—	—	—	—	—	—	—
All causes	2,267	604	418	320	256	236	222	84	127	316	420	531	820	1326	3018	5243	16220
Years of life (Census population × 3)	409,389	190,926	99,468	60,243	31,212	17,799	7,356	1,602	783								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	128	119	133	128	115	117	105	119								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,204

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 122

OCCUPATIONAL GROUP 9.—COAL MINE—PERSONS MAKING AND REPAIRING ROADS(044).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	136	1	4	17	10	20	41	21	22	11	22	49	28	58	148	230	562
Respiratory tuberculosis	215	4	33	45	46	44	30	8	5	43	179	129	131	127	108	88	128
Other tuberculosis	17	2	4	2	3	1	3	2	—	22	22	6	9	3	11	22	—
Syphilis, etc.	36	—	—	2	9	12	11	2	—	—	—	6	26	35	40	22	—
Syphilis	5	—	—	2	3	—	—	—	—	—	—	6	9	—	—	—	—
Tabes dorsalis	5	—	—	—	1	2	1	1	—	—	—	—	3	6	4	11	—
General paralysis of insane	15	—	—	—	3	6	5	1	—	—	—	—	9	17	18	11	—
Aneurysm	11	—	—	—	2	4	5	—	—	—	—	—	6	12	18	—	—
Cancer, all sites	341	—	3	3	16	73	131	61	54	—	16	9	45	210	471	670	1379
Skin	10	—	—	—	—	2	5	1	2	—	—	—	—	6	18	11	51
Lip	4	—	—	—	—	1	2	1	—	—	—	—	—	3	7	11	—
Tongue	15	—	—	—	1	4	7	1	2	—	—	—	3	12	25	11	51
Œsophagus	11	—	—	—	—	5	2	3	1	—	—	—	—	14	7	33	26
Stomach	97	—	—	1	4	24	41	16	11	—	—	3	11	69	148	176	281
Other sites	204	—	3	2	11	37	74	39	38	—	16	6	31	107	266	428	971
Chronic rheumatism, etc., Gout	12	—	—	—	—	—	7	2	3	—	—	—	—	—	25	22	77
Diabetes	17	—	3	2	—	5	3	3	1	—	16	6	—	14	11	33	26
Alcoholism	1	—	—	—	—	1	—	—	—	—	—	—	—	3	—	—	—
Cerebral hæmorrhage, etc.	261	—	—	2	4	25	73	46	111	—	—	6	11	72	263	505	2835
Other dis. of the nervous system	69	4	3	10	10	8	15	7	12	43	16	29	28	23	54	77	307
Valvular disease of heart	215	1	3	4	12	29	74	33	59	11	16	11	34	83	266	362	1507
Other heart disease	193	—	1	8	10	16	67	43	48	—	5	23	28	46	241	472	1226
Arterio-sclerosis	121	—	—	—	—	8	26	31	56	—	—	—	—	23	94	340	1430
Other dis. of circulatory system	5	—	—	1	—	1	1	1	1	—	—	3	—	3	4	11	26
Bronchitis	319	—	—	4	7	28	79	77	124	—	—	11	20	81	284	845	3167
Pneumonia	193	1	10	20	23	35	60	30	14	11	54	57	65	101	216	329	358
Chronic interstitial pneumonia	10	—	—	—	2	3	4	1	—	—	—	—	6	9	14	11	—
Other dis. of respiratory system	65	—	—	2	6	15	16	10	16	—	—	6	17	43	58	110	409
Ulcer of stomach	13	—	1	2	5	—	4	1	—	—	5	6	14	—	14	11	—
Ulcer of duodenum	10	—	1	1	1	3	3	1	—	—	5	3	3	9	11	11	—
Appendicitis	10	—	2	—	2	3	1	2	—	—	11	—	6	9	4	22	—
Hernia	13	1	—	—	—	3	4	—	5	11	—	—	—	9	14	—	128
Intestinal obstruction	14	—	2	—	4	1	2	—	5	—	11	—	11	3	7	—	128
Cirrhosis of liver	16	—	—	—	1	4	5	5	1	—	—	—	3	12	18	55	26
Other dis. of digestive system	71	2	—	5	1	14	18	9	22	22	—	14	3	40	65	99	562
Acute nephritis	13	1	3	2	1	2	3	—	1	11	16	6	3	6	11	—	26
Chronic nephritis	70	—	2	2	5	6	28	17	10	—	11	6	14	17	101	187	255
Diseases of the prostate	30	—	—	—	—	—	6	12	12	—	—	—	—	—	22	132	307
Other genito-urinary diseases	23	—	1	1	4	2	5	4	6	—	5	3	11	6	18	44	153
Old age	137	—	—	—	—	—	1	8	128	—	—	—	—	—	4	88	3269
Suicide	35	—	1	4	3	6	15	4	2	—	5	11	9	17	54	44	51
Accident	269	8	20	37	52	63	59	17	13	87	109	106	148	181	212	187	332
Other causes	119	2	3	8	26	31	22	16	11	—	—	—	—	—	—	—	—
All causes	3,069	27	100	184	263	462	817	474	742	293	544	527	746	1330	2939	5203	18953
Years of life (Census population × 3)	173,298	9,210	18,396	34,899	35,232	34,740	27,795	9,111	3,915								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	119	155	132	117	115	114	104	140								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,191

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 118

OCCUPATIONAL GROUP 10.—COAL MINE—OTHER WORKERS BELOW GROUND (047).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	193	11	13	14	22	34	53	23	23	37	39	25	43	69	154	232	502
Respiratory tuberculosis	341	25	54	65	76	71	43	7	—	83	162	118	148	144	125	71	—
Other tuberculosis	39	7	4	8	9	5	4	1	1	23	12	15	18	10	12	10	22
Syphilis, etc.	58	1	—	4	14	21	10	6	2	3	—	7	27	43	29	60	44
Syphilis	4	—	—	—	2	1	—	—	1	—	—	—	4	2	—	—	22
Tabes dorsalis	10	—	—	—	1	3	2	3	1	—	—	—	2	6	6	30	22
General paralysis of insane	25	—	—	3	8	11	3	—	—	—	—	6	16	22	9	—	—
Aneurysm	19	1	—	1	3	6	5	3	—	3	—	2	6	12	15	30	—
Cancer, all sites	419	4	1	6	23	83	159	76	67	13	3	11	45	169	462	766	1462
Skin	15	—	—	1	2	4	1	3	4	—	—	2	4	8	3	30	87
Lip	6	—	—	—	—	—	2	2	2	—	—	—	—	—	6	20	44
Tongue	21	—	—	—	1	3	11	3	3	—	—	—	2	6	32	30	65
Œsophagus	17	—	—	—	—	3	7	5	2	—	—	—	—	6	20	50	44
Stomach	135	—	—	3	11	30	51	24	16	—	—	6	21	61	148	242	349
Other sites	225	4	1	2	9	43	87	39	40	13	3	4	18	87	253	393	873
Chronic rheumatism, etc., Gout	13	—	—	—	—	3	3	6	1	—	—	—	—	6	9	60	22
Diabetes	31	2	2	1	5	8	6	5	2	7	6	2	10	16	17	50	44
Alcoholism	3	—	—	—	—	2	1	—	—	—	—	—	—	4	3	—	—
Cerebral hæmorrhage, etc.	264	—	—	3	4	30	72	64	91	—	—	6	8	61	209	645	1985
Other dis. of the nervous system	91	7	8	16	7	19	21	8	5	23	24	29	14	39	61	81	109
Valvular disease of heart	236	3	6	18	21	46	76	34	32	10	18	33	41	93	221	343	698
Other heart disease	258	9	6	8	17	39	74	41	64	30	18	15	33	79	215	413	1396
Arterio-sclerosis	136	—	—	—	—	17	39	30	50	—	—	—	—	35	113	302	1091
Other dis. of circulatory system	7	—	—	—	—	2	2	2	1	—	—	—	—	4	6	20	22
Bronchitis	397	—	1	4	11	44	122	77	138	—	3	7	21	89	355	776	3010
Pneumonia	306	9	21	28	41	77	73	30	27	30	63	51	80	156	212	302	589
Chronic interstitial pneumonia	5	—	—	—	1	—	2	2	—	—	—	—	2	—	6	20	—
Other dis. of respiratory system	78	2	—	4	6	17	20	15	14	7	—	7	12	35	58	151	305
Ulcer of stomach	19	—	—	4	3	5	5	2	—	—	—	7	6	10	15	20	—
Ulcer of duodenum	15	1	1	—	3	5	3	—	2	3	3	—	6	10	9	—	44
Appendicitis	20	3	5	—	4	4	3	1	—	10	15	—	8	8	9	10	—
Hernia	9	—	—	—	—	3	4	1	1	—	—	—	—	6	12	10	22
Intestinal obstruction	18	1	2	2	2	1	6	3	1	3	6	4	4	2	17	30	22
Cirrhosis of liver	23	—	—	—	—	7	10	5	1	—	—	—	—	14	29	50	22
Other dis. of digestive system	73	2	2	3	11	13	23	9	10	7	6	6	21	26	67	91	218
Acute nephritis	22	1	3	5	—	3	7	1	2	3	9	9	—	6	20	10	44
Chronic nephritis	94	—	4	4	9	17	31	19	10	—	12	7	18	35	90	192	218
Diseases of the prostate	24	—	—	—	—	3	3	10	8	—	—	—	—	6	9	101	175
Other genito-urinary diseases	23	1	1	2	1	6	4	3	5	3	3	4	2	12	12	30	109
Old age	217	—	—	—	—	—	5	11	201	—	—	—	—	—	15	111	4385
Suicide	50	—	1	4	9	14	15	4	3	—	3	7	18	28	44	40	65
Accident	397	33	30	70	52	80	85	31	16	110	90	127	102	162	247	313	349
Other causes	191	10	11	16	22	39	56	26	11	—	—	—	—	—	—	—	—
All causes	4,070	132	176	289	373	718	1,040	553	789	438	529	526	728	1458	3025	5576	17212
Years of life (Census population × 3) in thousands	267,633	30,111	33,258	54,930	51,207	49,242	34,383	9,918	4,584								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	177	150	132	114	126	118	112	127								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,226

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 123

OCCUPATIONAL GROUP 8-10.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043–047).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	435	52	33	48	40	59	106	45	52	23	22	32	34	58	152	218	560
Respiratory tuberculosis	902	134	193	177	154	139	82	17	6	58	128	118	131	137	118	82	65
Other tuberculosis	129	45	37	16	13	7	7	3	1	20	24	11	11	7	10	15	11
Syphilis, etc.	118	1	1	11	30	39	24	10	2	0	1	7	26	38	35	48	22
Syphilis	12	—	—	2	5	2	2	—	1	—	—	1	4	2	3	—	11
Tabes dorsalis	17	—	—	—	2	6	3	5	1	—	—	—	2	6	4	24	11
General paralysis of insane	56	—	1	7	18	21	8	1	—	—	1	5	15	21	12	5	—
Aneurysm	33	1	—	2	5	10	11	4	—	0	—	1	4	10	16	19	—
Cancer, all sites	863	12	8	13	53	180	318	148	131	5	5	9	45	177	457	717	1411
Skin	29	—	—	2	2	6	7	4	8	—	—	1	2	6	10	19	86
Lip	10	—	—	—	—	1	4	3	2	—	—	—	—	1	6	15	22
Tongue	41	—	—	—	2	9	20	4	6	—	—	—	2	9	29	19	65
Œsophagus	34	—	—	—	—	11	9	10	4	—	—	—	—	11	13	48	43
Stomach	253	1	—	5	17	59	102	42	27	0	—	3	14	58	147	204	291
Other sites	496	11	8	6	32	94	176	85	84	5	5	4	27	92	253	412	905
Chronic rheumatism, etc., Gout	27	—	1	1	—	3	10	8	4	—	1	1	—	3	14	39	43
Diabetes	75	10	10	10	8	13	11	9	4	4	7	7	7	13	16	44	43
Alcoholism	4	—	—	—	—	3	1	—	—	—	—	—	—	3	1	—	—
Cerebral hæmorrhage, etc.	601	1	1	8	12	67	163	122	227	0	1	5	10	66	234	591	2446
Other dis. of the nervous system	241	37	21	37	26	41	44	15	20	16	14	25	22	40	63	73	215
Valvular disease of heart	565	26	27	33	52	89	169	72	97	11	18	22	44	87	243	349	1045
Other heart disease	539	17	18	29	42	61	162	90	120	7	12	19	36	60	233	436	1293
Arterio-sclerosis	274	—	—	—	—	28	67	62	117	—	—	—	—	28	96	301	1261
Other dis. of circulatory system	17	2	—	1	—	5	4	3	2	1	—	1	—	5	6	15	22
Bronchitis	797	2	3	14	27	83	226	166	276	1	2	9	23	82	325	805	2973
Pneumonia	675	65	68	73	85	127	148	64	45	28	45	49	72	125	213	310	485
Chronic interstitial pneumonia	16	—	—	—	3	3	6	4	—	—	—	—	3	3	9	19	—
Other dis. of respiratory system	177	6	5	9	17	38	42	28	32	3	3	6	14	37	60	136	345
Ulcer of stomach	54	5	3	11	13	8	10	4	—	2	2	7	11	8	14	19	—
Ulcer of duodenum	31	2	4	2	6	8	6	1	2	1	3	1	5	8	9	5	22
Appendicitis	62	16	17	6	8	8	4	3	—	7	11	4	7	8	6	15	—
Hernia	31	3	2	1	—	9	9	1	6	1	1	1	—	9	13	5	65
Intestinal obstruction	51	6	7	7	9	5	8	3	6	3	5	5	8	5	12	15	65
Cirrhosis of liver	44	—	—	—	3	13	16	10	2	—	—	—	3	13	23	48	22
Other dis. of digestive system	177	12	6	11	19	29	47	20	33	5	4	7	16	28	68	97	356
Acute nephritis	47	4	10	7	4	6	12	1	3	2	7	5	3	6	17	5	32
Chronic nephritis	210	7	11	17	21	28	63	42	21	3	7	11	18	28	91	204	226
Diseases of the prostate	63	—	—	—	—	4	12	24	23	—	—	—	—	4	17	116	248
Other genito-urinary diseases	60	3	3	5	6	10	12	8	13	1	2	3	5	10	17	39	140
Old age	380	—	—	—	—	—	7	20	353	—	—	—	—	—	10	97	3803
Suicide	121	3	8	15	19	28	32	11	5	1	5	10	16	28	46	53	54
Accident	1,169	232	147	189	163	194	163	52	29	101	97	126	138	191	234	252	312
Other causes	451	60	50	42	59	81	88	45	26	—	—	—	—	—	—	—	—
All causes	9,406	763	694	793	892	1,416	2,079	1,111	1,658	331	459	528	758	1391	2990	5385	17863
Years of life (Census population × 3) in thousands	850,320	230,247	151,122	150,072	117,651	101,781	69,534	20,631	9,282								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	134	130	132	119	120	116	108	131								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,203

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 121

OCCUPATIONAL GROUP 11.—COAL MINE—WORKERS ABOVE GROUND, NOT SUPERINTENDING STAFF (049).*

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	199	11	8	23	36	24	40	27	30	22	23	40	71	50	110	204	352
Respiratory tuberculosis ..	404	53	61	89	77	57	51	8	8	105	172	154	152	118	140	60	94
Other tuberculosis	62	11	16	10	11	9	3	2	—	22	45	17	22	19	8	15	—
Syphilis, etc.	59	—	1	3	19	15	13	4	4	—	3	5	38	31	36	30	47
Syphilis	3	—	—	—	1	—	1	1	—	—	—	—	2	—	3	8	—
Tabes dorsalis	12	—	—	1	1	3	5	1	1	—	—	2	2	6	14	8	12
General paralysis of insane ..	35	—	—	2	17	10	5	—	1	—	—	3	34	21	14	—	12
Aneurysm	9	—	1	—	—	2	2	2	2	—	3	—	—	4	6	15	23
Cancer, all sites	432	3	5	6	19	72	152	93	82	6	14	10	38	149	417	703	962
Skin	18	—	—	—	—	5	6	—	7	—	—	—	—	10	16	—	82
Lip	3	—	—	—	—	1	—	1	1	—	—	—	—	2	—	8	12
Tongue	26	—	—	—	—	3	11	8	4	—	—	—	—	6	30	60	47
Œsophagus	9	—	—	—	—	1	4	1	3	—	—	—	—	2	11	8	35
Stomach	117	—	—	—	5	22	44	24	22	—	—	—	10	46	121	181	258
Other sites	259	3	5	6	14	40	87	59	45	6	14	10	28	83	239	446	528
Chronic rheumatism, etc., Gout	14	—	—	—	—	1	4	3	6	—	—	—	—	2	11	23	70
Diabetes	31	3	—	4	4	2	11	4	3	6	—	7	8	4	30	30	35
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	407	—	1	1	9	37	94	88	177	—	3	2	18	77	258	665	2077
Other dis. of the nervous system	143	18	12	13	11		34	14	16	36	34	23	22	52	93	106	188
Valvular disease of heart ..	354	11	13	25	23	64	102	51	5	22	37	43	46	133	280	385	763
Other heart disease	321	6	4	14	16	36	89	56	100	12	11	24	32	75	244	423	1173
Arterio-sclerosis	191	—	—	—	3	8	32	42	106	—	—	—	6	17	88	317	1244
Other dis. of circulatory system	12	—	1	1	1	1	4	2	2	—	3	2	2	2	11	15	23
Bronchitis..	515	2	6	6	23	36	128	90	224	4	17	10	46	75	351	680	2628
Pneumonia	322	21	15	24	44	59	79	27	53	42	42	42	87	122	217	204	622
Chronic interstitial pneumonia ..	5	—	—	—	—	2	2	1	—	—	—	—	—	4	6	8	—
Other dis. of respiratory system	78	3	1	5	10	14	22	11	12	6	3	9	20	29	60	83	141
Ulcer of stomach	26	1	3	2	2	6	5	6	1	2	8	3	4	12	14	45	12
Ulcer of duodenum	15	—	4	3	—	4	1	3	—	—	11	5	—	8	3	23	—
Appendicitis	18	4	3	4	2	2	1	1	1	8	8	7	4	4	3	8	12
Hernia	17	—	—	1	—	6	2	2	6	—	—	2	—	12	6	15	70
Intestinal obstruction	24	1	1	2	1	5	5	4	5	2	3	3	2	10	14	30	59
Cirrhosis of liver	23	—	—	—	1	4	11	4	3	—	—	—	2	8	30	30	35
Other dis. of digestive system ..	73	4	2	5	4	9	19	13	17	8	6	9	8	19	52	98	199
Acute nephritis	14	1	—	—	2	2	3	6	—	2	—	—	4	4	8	45	—
Chronic nephritis..	124	2	3	6	12	17	36	29	19	4	8	10	24	35	99	219	223
Diseases of the prostate ..	33	—	—	—	—	—	7	7	19	—	—	—	—	—	19	53	223
Other genito-urinary diseases ..	42	—	1	3	3	7	6	11	11	—	3	5	6	15	16	83	129
Old age	296	—	—	—	—	—	1	14	281	—	—	—	—	—	3	106	3297
Suicide	56	—	3	6	5	12	16	8	6	—	8	10	10	25	44	60	70
Accident	224	25	12	26	29	46	36	26	24	50	34	45	57	95	99	196	282
Other causes	209	14	10	23	37	39	37	16	33	—	—	—	—	—	—	—	—
All causes	4,743	194	186	305	404	621	1,046	673	1,314	386	524	529	800	1289	2869	5086	15417
Years of life (Census population × 3)	300,306	50,292	35,463	57,627	50,529	48,177	36,462	13,233	8,523								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	156	149	133	125	112	112	102	113								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,183
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	118

OCCUPATIONAL GROUP 7–11.—COAL MINERS, NOT SUPERINTENDING STAFF (042–049).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	1,228	73	73	166	168	173	269	125	181	18	18	25	32	43	125	205	382
Respiratory tuberculosis ..	2,792	236	429	633	630	486	285	65	28	58	105	95	119	120	132	107	59
Other tuberculosis	359	70	78	80	54	37	28	10	2	17	19	12	10	9	13	16	4
Syphilis, etc.	452	1	2	41	125	149	95	26	13	—	—	6	24	37	44	43	27
Syphilis	34	—	—	6	12	8	5	1	2	—	—	1	2	2	2	2	4
Tabes dorsalis	79	—	—	2	12	26	24	10	5	—	—	0	2	6	11	16	11
General paralysis of insane ..	252	—	1	30	91	85	37	6	2	—	0	5	17	21	17	10	4
Aneurysm	87	1	1	3	10	30	29	9	4	0	0	0	2	7	13	15	8
Cancer, all sites	2,720	17	27	63	208	571	920	458	456	4	7	9	39	141	428	751	962
Skin	100	—	—	2	7	25	22	15	29	—	—	0	1	6	10	25	61
Lip	28	—	—	—	—	2	14	5	7	—	—	—	—	0	7	8	15
Tongue	121	—	—	—	5	34	47	20	15	—	—	—	1	8	22	33	32
Œsophagus	85	—	—	1	3	22	30	16	13	—	—	0	1	5	14	26	27
Stomach	820	1	2	17	67	182	300	136	115	0	0	3	13	45	139	223	243
Other sites	1,566	16	25	43	126	306	507	266	277	4	6	6	24	76	236	436	584
Chronic rheumatism, etc., Gout	94	—	2	1	2	11	33	23	22	—	0	0	0	3	15	38	46
Diabetes	197	15	15	32	35	34	29	22	15	4	4	5	7	8	13	36	32
Alcoholism	8	—	—	1	1	5	1	—	—	—	—	0	0	1	0	—	—
Cerebral hæmorrhage, etc. ..	2,094	2	5	21	52	195	486	421	912	0	1	3	10	48	226	690	1923
Other dis. of the nervous system	831	64	49	112	106	156	170	76	98	16	12	17	20	39	79	125	207
Valvular disease of heart ..	1,789	51	57	118	174	310	480	238	361	13	14	18	33	77	223	390	761
Other heart disease	1,883	29	31	106	132	210	477	324	574	7	8	16	25	52	222	531	1211
Arterio-sclerosis	1,066	—	—	—	9	61	207	206	583	—	—	—	2	15	96	338	1230
Other dis. of circulatory system	47	2	3	6	4	8	10	8	6	0	1	1	1	2	5	13	13
Bronchitis..	3,154	5	13	37	93	260	738	588	1,420	1	3	6	18	64	343	964	2995
Pneumonia	2,159	113	157	274	378	439	407	180	211	28	38	41	71	109	189	295	445
Chronic interstitial pneumonia ..	60	—	—	1	5	19	20	11	4	—	—	0	1	5	9	18	8
Other dis. of respiratory system	524	12	10	32	54	91	135	76	114	3	2	5	10	23	63	125	240
Ulcer of stomach	170	7	8	28	42	35	31	15	4	2	2	4	8	9	14	25	8
Ulcer of duodenum	106	2	13	23	21	26	12	5	4	0	3	3	4	6	6	8	8
Appendicitis	185	32	39	35	37	18	16	5	3	8	10	5	7	4	7	8	6
Hernia	93	3	2	6	2	27	20	11	22	1	0	1	0	7	9	18	46
Intestinal obstruction	141	9	14	11	19	19	28	13	28	2	3	2	4	5	13	21	59
Cirrhosis of liver	133	—	—	1	7	30	52	29	14	—	—	0	1	7	24	48	30
Other dis. of digestive system ..	506	17	21	36	47	83	117	60	125	4	5	5	9	21	54	98	264
Acute nephritis	129	10	18	16	15	26	26	11	7	2	4	2	3	6	12	18	15
Chronic nephritis..	698	11	22	55	73	110	185	112	130	3	5	8	14	27	86	184	274
Diseases of the prostate ..	185	—	—	2	—	7	36	46	94	—	—	0	—	2	17	75	198
Other genito-urinary diseases ..	211	4	5	16	17	42	43	28	56	1	1	2	3	10	20	46	118
Old age	1,686	—	—	—	—	2	21	81	1,582	—	—	—	—	0	10	133	3336
Suicide	448	4	28	45	85	102	107	45	32	1	7	7	16	25	50	74	67
Accident	2,847	339	320	594	521	498	341	115	119	84	78	89	98	123	159	189	251
Other causes	1,339	93	103	168	220	271	248	109	127	—	—	—	—	—	—	—	—
All causes	30,334	1,221	1,544	2,760	3,336	4,511	6,073	3,542	7,347	302	377	416	629	1116	2823	5808	15495
Years of life (Census population × 3)	2,736,378	404,379	409,839	664,230	530,232	404,202	215,097	60,984	47,415								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	122	107	104	98	97	110	116	114								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,034
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	103

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* For an analysis of the mortality of these workers in different parts of the country *see* pages 109–112.

OCCUPATIONAL GROUP 12.—IRON ORE MINE—UNDERGROUND WORKERS, NOT SUPERINTENDING STAFF (054 part).*

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	30	1	3	5	6	4	5	1	5	36	65	51	64	62	130	78	364
Respiratory tuberculosis	47	2	1	14	9	13	4	2	2	71	22	143	96	202	104	155	146
Other tuberculosis	8	—	2	4	1	—	1	—	—	—	43	41	11	—	26	—	—
Syphilis, etc.	2	—	—	—	—	1	—	1	—	—	—	—	—	16	—	78	—
Syphilis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	78	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	1	—	—	—	—	1	—	—	—	—	—	—	—	16	—	—	—
Cancer, all sites	61	—	2	—	2	5	20	13	19	—	43	—	21	78	520	1008	1383
Skin	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	78	—
Lip	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	78	146
Tongue	2	—	—	—	—	—	1	1	—	—	—	—	—	—	26	78	—
Œsophagus	1	—	—	—	—	1	—	—	—	—	—	—	—	16	—	—	—
Stomach	13	—	—	—	1	2	5	3	2	—	—	—	11	31	130	233	146
Other sites	41	—	2	—	1	2	14	7	15	—	43	—	11	31	364	543	1092
Chronic rheumatism, etc., Gout	4	—	—	—	1	—	—	2	1	—	—	—	11	—	—	155	73
Diabetes	6	—	—	2	1	—	—	2	1	—	—	20	11	—	—	155	73
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	46	—	1	1	1	3	6	6	28	—	22	10	11	47	156	465	2038
Other dis. of the nervous system	12	—	—	3	2	4	1	—	2	—	—	31	21	62	26	—	146
Valvular disease of heart	40	—	—	4	1	3	6	10	16	—	—	41	11	47	156	775	1164
Other heart disease	38	—	—	—	—	3	4	7	24	—	—	—	—	47	104	543	1747
Arterio-sclerosis	30	—	—	—	—	2	7	3	18	—	—	—	—	31	182	233	1310
Other dis. of circulatory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	73
Bronchitis	70	—	—	—	1	2	6	11	50	—	—	—	11	31	156	853	3639
Pneumonia	28	—	1	3	4	5	5	2	8	—	22	31	43	78	130	155	582
Chronic interstitial pneumonia	5	—	—	—	1	3	1	—	—	—	—	—	11	47	26	—	—
Other dis. of respiratory system	16	1	2	1	—	2	2	2	6	36	43	10	—	31	52	155	437
Ulcer of stomach	3	—	—	—	1	1	—	—	1	—	—	—	11	16	—	—	73
Ulcer of duodenum	1	—	—	—	1	—	—	—	—	—	—	—	11	—	—	—	—
Appendicitis	5	—	1	1	2	—	—	—	1	—	22	10	21	—	—	—	73
Hernia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	26	—	—
Intestinal obstruction	3	1	—	1	—	—	1	—	—	36	—	10	—	—	26	—	—
Cirrhosis of liver	1	—	—	—	1	—	—	—	—	—	—	—	11	—	—	—	—
Other dis. of digestive system	8	—	—	1	2	1	1	2	1	—	—	10	21	16	26	155	73
Acute nephritis	2	—	—	—	1	—	1	—	—	—	—	—	11	—	26	—	—
Chronic nephritis	10	—	—	—	—	3	1	1	5	—	—	—	—	47	26	78	364
Diseases of the prostate	6	—	—	—	—	—	—	1	5	—	—	—	—	—	—	78	364
Other genito-urinary diseases	3	—	—	—	—	1	—	—	2	—	—	—	—	16	—	—	146
Old age	45	—	—	—	—	—	1	2	42	—	—	—	—	—	26	155	3057
Suicide	10	—	—	1	—	5	—	3	1	—	—	10	—	78	—	233	73
Accident	32	—	4	2	13	5	6	2	—	—	86	20	138	78	156	155	—
Other causes	26	1	1	2	3	6	8	2	3	—	—	—	—	—	—	—	—
All causes	600	6	18	45	54	72	88	75	242	214	389	460	575	1118	2290	5814	17613
Years of life (Census population × 3)	39,543	2,802	4,626	9,780	9,387	6,441	3,843	1,290	1,374								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	87	111	115	90	97	89	116	130								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	954
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	96

OCCUPATIONAL GROUP 13.—TIN AND COPPER MINERS, NOT SUPERINTENDING STAFF (054 part, 056 part).†

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	4	—	—	1	—	1	1	—	1	—	—	47	—	65	97	—	340
Respiratory tuberculosis	102	—	1	16	27	27	27	2	2	—	91	746	1520	1744	2632	517	680
Other tuberculosis	3	—	—	2	1	—	—	—	—	—	—	93	56	—	—	—	—
Syphilis, etc.	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	340
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	340
Cancer, all sites	21	—	—	—	1	5	6	3	6	—	—	—	56	323	585	775	2041
Skin	1	—	—	—	—	1	—	—	—	—	—	—	—	65	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	7	—	—	—	1	—	1	2	3	—	—	—	56	—	97	517	1020
Other sites	13	—	—	—	—	4	5	1	3	—	—	—	—	258	487	258	1020
Chronic rheumatism, etc., Gout	2	—	—	1	—	—	1	—	—	—	—	47	—	—	97	—	—
Diabetes	4	—	—	1	—	1	1	1	—	—	—	47	—	65	97	258	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	20	—	—	—	—	4	5	3	8	—	—	—	—	258	487	775	2721
Other dis. of the nervous system	10	—	—	—	3	1	4	1	1	—	—	—	169	65	390	258	340
Valvular disease of heart	15	—	—	—	—	1	3	3	8	—	—	—	—	65	292	775	2721
Other heart disease	25	—	—	1	1	2	6	3	12	—	—	47	56	129	585	775	4082
Arterio-sclerosis	9	—	—	—	—	1	1	1	6	—	—	—	—	65	97	258	2041
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	32	—	—	—	—	4	9	7	12	—	—	—	—	258	877	1809	4082
Pneumonia	6	—	—	—	—	3	—	1	2	—	—	—	—	194	—	258	680
Chronic interstitial pneumonia	28	—	—	—	8	6	10	3	1	—	—	—	450	388	975	775	340
Other dis. of respiratory system	7	—	—	—	2	—	2	1	2	—	—	—	113	—	195	258	680
Ulcer of stomach	1	—	—	—	—	1	—	—	—	—	—	—	—	65	—	—	—
Ulcer of duodenum	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	258	—
Appendicitis	1	—	—	—	1	—	—	—	—	—	—	—	56	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	2	—	—	—	1	—	1	—	—	—	—	—	56	—	97	—	—
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	8	—	—	—	1	3	1	1	2	—	—	—	56	194	97	258	680
Diseases of the prostate	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	340
Other genito-urinary diseases	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	340
Old age	18	—	—	—	—	—	—	—	18	—	—	—	—	—	—	—	6122
Suicide	5	—	—	—	2	—	3	—	—	—	—	—	113	—	292	—	—
Accident	8	1	—	4	—	2	—	1	—	94	—	186	—	129	—	258	—
Other causes	5	—	2	—	—	—	1	1	1	—	—	—	—	—	—	—	—
All causes	340	1	3	26	48	62	82	33	85	94	273	1212	2703	4005	7992	8527	28912
Years of life (Census population × 3)	9,339	1,065	1,098	2,145	1,776	1,548	1,026	387	294								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	38	78	304	423	346	311	171	213								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	3,268
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	325

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* This group comprises the Underground Metalliferous Mine Workers, not Superintending Staff, employed in Coal Mines and in Iron Ore Mines

† This group comprises the Metalliferous Mine Workers, not Superintending Staff, employed in or about Tin and

OCCUPATIONAL GROUP 13a.—TIN AND COPPER MINE—UNDERGROUND WORKERS, NOT SUPERINTENDING STAFF (054 part).*

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	2	—	—	1	—	—	—	—	1	—	—	60	—	—	—	—	538
Respiratory tuberculosis	96	—	1	16	25	25	25	2	2	—	123	956	1998	2533	4188	966	1075
Other tuberculosis	1	—	—	—	1	—	—	—	—	—	—	—	80	—	—	—	—
Syphilis, etc.	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	538
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	538
Cancer, all sites	16	—	—	—	1	5	4	2	4	—	—	—	80	507	670	966	2151
Skin	1	—	—	—	—	1	—	—	—	—	—	—	—	101	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	4	—	—	—	1	—	1	1	1	—	—	—	80	—	168	483	538
Other sites	11	—	—	—	—	4	3	1	3	—	—	—	—	405	503	483	1613
Chronic rheumatism, etc , Gout	2	—	—	1	—	—	1	—	—	—	—	60	—	—	168	—	—
Diabetes	3	—	—	1	—	1	—	1	—	—	—	60	—	101	—	483	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	16	—	—	—	—	4	3	3	6	—	—	—	—	405	503	1449	3226
Other dis. of the nervous system	3	—	—	—	2	—	—	1	—	—	—	—	160	—	—	483	—
Valvular disease of heart	12	—	—	—	—	1	3	3	5	—	—	—	—	101	503	1449	2688
Other heart disease	20	—	—	1	1	2	5	2	9	—	—	60	80	203	838	966	4839
Arterio-sclerosis	7	—	—	—	—	1	1	1	4	—	—	—	—	101	168	483	2151
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	29	—	—	—	—	3	7	7	12	—	—	—	—	304	1173	3382	6452
Pneumonia	3	—	—	—	—	3	—	—	—	—	—	—	—	304	—	—	—
Chronic interstitial pneumonia	27	—	—	—	8	5	10	3	1	—	—	—	640	507	1675	1449	538
Other dis. of respiratory system	5	—	—	—	2	—	2	—	1	—	—	—	160	—	335	—	538
Ulcer of stomach	1	—	—	—	—	1	—	—	—	—	—	—	—	101	—	—	—
Ulcer of duodenum	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	483	—
Appendicitis	1	—	—	—	1	—	—	—	—	—	—	—	80	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	168	—	—
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	8	—	—	—	1	3	1	1	2	—	—	—	80	304	168	483	1075
Diseases of the prostate	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	538
Other genito-urinary diseases	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	538
Old age	12	—	—	—	—	—	—	—	12	—	—	—	—	—	—	—	6452
Suicide	4	—	—	—	2	—	2	—	—	—	—	—	160	—	335	—	—
Accident	7	1	—	4	—	1	—	1	—	163	—	239	—	101	—	483	—
Other causes	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—
All causes	282	1	1	24	44	55	65	29	63	163	123	1434	3517	5572	10888	14010	33871
Years of life (Census population × 3)	6,330	612	816	1,674	1,251	987	597	207	186								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	66	35	359	550	482	423	281	249								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	4,335
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	430

OCCUPATIONAL GROUP 14.—STONE MINERS AND QUARRIERS (072).†

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	42	1	2	1	4	6	12	4	12	19	24	6	22	38	113	122	441
Respiratory tuberculosis	109	2	10	10	26	29	26	3	3	38	122	63	144	182	245	92	110
Other tuberculosis	7	1	—	—	2	3	1	—	—	19	—	—	11	19	9	—	—
Syphilis, etc.	18	—	—	—	4	6	5	2	1	—	—	—	22	38	47	61	37
Syphilis	3	—	—	—	1	—	2	—	—	—	—	—	6	—	19	—	—
Tabes dorsalis	5	—	—	—	1	2	1	1	—	—	—	—	6	13	9	31	—
General paralysis of insane	6	—	—	—	2	2	2	—	—	—	—	—	11	13	19	—	—
Aneurysm	4	—	—	—	—	2	—	1	1	—	—	—	—	13	—	31	37
Cancer, all sites	124	1	—	—	6	21	30	29	37	19	—	—	33	132	283	887	1358
Skin	7	—	—	—	—	—	1	2	4	—	—	—	—	—	9	61	147
Lip	6	—	—	—	—	2	1	—	3	—	—	—	—	13	9	—	110
Tongue	9	—	—	—	—	3	3	2	1	—	—	—	—	19	28	61	37
Œsophagus	2	—	—	—	1	—	—	1	—	—	—	—	6	—	—	31	—
Stomach	34	—	—	—	4	6	7	6	11	—	—	—	22	38	66	183	404
Other sites	66	1	—	—	1	10	18	18	18	19	—	—	6	63	170	550	661
Chronic rheumatism, etc , Gout	9	—	—	—	—	1	3	2	3	—	—	—	—	6	28	61	110
Diabetes	10	—	—	—	3	—	3	3	1	—	—	—	17	—	28	92	37
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	93	—	—	—	1	8	18	11	55	—	—	—	6	50	170	336	2019
Other dis. of the nervous system	27	—	1	4	4	3	4	3	8	—	12	25	22	19	38	92	294
Valvular disease of heart	81	—	3	3	8	10	26	8	23	—	37	19	44	63	245	245	844
Other heart disease	85	—	—	5	4	3	16	14	43	—	—	32	22	19	151	428	1579
Arterio-sclerosis	72	—	—	—	—	—	17	11	44	—	—	—	—	—	160	336	1615
Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	9	—	—
Bronchitis	122	—	—	—	1	6	25	31	59	—	—	—	6	38	236	948	2166
Pneumonia	79	1	—	9	15	15	17	15	7	19	—	57	83	94	160	459	257
Chronic interstitial pneumonia	9	—	—	—	1	—	7	—	1	—	—	—	6	—	66	—	37
Other dis. of respiratory system	16	—	2	—	2	4	—	4	4	—	24	—	11	25	—	122	147
Ulcer of stomach	9	—	1	—	4	—	2	1	1	—	12	—	22	—	19	31	37
Ulcer of duodenum	3	—	—	—	—	1	1	1	—	—	—	—	—	6	9	31	—
Appendicitis	6	1	1	—	1	2	1	—	—	19	12	—	6	13	9	—	—
Hernia	7	—	—	—	1	2	1	—	3	—	—	—	6	13	9	—	110
Intestinal obstruction	8	—	1	2	—	—	1	1	3	—	12	13	—	—	9	31	110
Cirrhosis of liver	5	—	—	—	—	—	—	2	3	—	—	—	—	—	—	61	110
Other dis. of digestive system	18	—	2	1	—	3	3	3	6	—	24	6	—	19	28	92	220
Acute nephritis	4	1	—	—	—	1	1	—	1	19	—	—	—	6	9	—	37
Chronic nephritis	29	1	—	1	1	1	7	10	8	19	—	6	6	6	66	306	294
Diseases of the prostate	6	—	—	—	—	—	3	1	2	—	—	—	—	—	28	31	73
Other genito-urinary diseases	10	—	—	—	—	—	3	3	4	—	—	—	—	—	28	92	147
Old age	107	—	—	—	—	—	—	3	104	—	—	—	—	—	—	92	3818
Suicide	17	—	—	2	4	4	3	2	2	—	—	13	22	25	28	61	73
Accident	83	4	7	15	15	18	15	3	6	76	86	95	83	113	142	92	220
Other causes	58	—	1	4	9	8	17	6	13	—	—	—	—	—	—	—	—
All causes	1,274	13	31	57	116	155	269	176	457	248	379	360	644	971	2539	5382	16777
Years of life (Census population × 3)	79,851	5,244	8,181	15,846	18,024	15,966	10,596	3,270	2,724								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	100	108	90	101	84	99	108	123								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	946
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	94

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* This group comprises the Underground Metalliferous Mine Workers, not Superintending Staff, employed in Tin and Copper Mines (Ind. Code No. 042).

† For an analysis of the mortality of these workers in different parts of the country *see* pages 113 and 114.

OCCUPATIONAL GROUP 15.—SLATE MINERS AND QUARRIERS (073).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	16	—	—	1	—	1	6	3	5	—	—	31	—	24	196	312	454
Respiratory tuberculosis	51	—	1	6	8	13	15	7	1	—	53	188	195	307	491	727	91
Other tuberculosis	4	—	—	1	—	—	2	—	1	—	—	31	—	—	65	—	91
Syphilis, etc.	3	—	—	—	—	1	1	—	1	—	—	—	—	24	33	—	91
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	2	—	—	—	—	—	1	—	1	—	—	—	—	—	33	—	91
General paralysis of insane	1	—	—	—	—	1	—	—	—	—	—	—	—	24	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	40	—	—	—	—	5	13	9	13	—	—	—	—	118	425	935	1181
Skin	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	91
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	91
Stomach	17	—	—	—	—	3	5	4	5	—	—	—	—	71	164	415	454
Other sites	21	—	—	—	—	2	8	5	6	—	—	—	—	47	262	519	545
Chronic rheumatism, etc., Gout	5	—	—	—	1	—	1	2	1	—	—	—	24	—	33	208	91
Diabetes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	31	—	—	—	—	—	5	4	22	—	—	—	—	—	164	415	1998
Other dis. of the nervous system	7	—	—	—	—	2	3	2	—	—	—	—	—	47	98	208	—
Valvular disease of heart	39	—	1	1	—	6	11	8	12	—	53	31	—	142	360	831	1090
Other heart disease	47	—	—	—	—	—	8	11	28	—	—	—	—	—	262	1142	2543
Arterio-sclerosis	30	—	—	—	—	—	4	8	18	—	—	—	—	—	131	831	1635
Other dis. of circulatory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	91
Bronchitis	30	—	—	—	—	2	3	5	20	—	—	—	—	47	98	519	1817
Pneumonia	12	—	—	—	1	4	2	1	4	—	—	—	24	94	65	104	363
Chronic interstitial pneumonia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	91
Other dis. of respiratory system	12	—	—	—	1	2	5	2	2	—	—	—	24	47	164	208	182
Ulcer of stomach	3	—	—	1	—	1	—	—	1	—	—	31	—	24	—	—	91
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	1	1	—	—	—	—	—	—	—	72	—	—	—	—	—	—	—
Hernia	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	182
Intestinal obstruction	3	1	—	—	—	—	—	1	1	72	—	—	—	—	—	104	91
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	4	—	—	—	1	1	—	—	2	—	—	—	24	24	—	—	182
Acute nephritis	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	182
Chronic nephritis	17	—	—	—	—	—	2	5	10	—	—	—	—	—	65	519	908
Diseases of the prostate	4	—	—	—	—	1	—	—	3	—	—	—	—	24	—	—	272
Other genito-urinary diseases	4	—	—	—	1	—	1	—	2	—	—	—	24	—	33	—	182
Old age	30	—	—	—	—	—	—	—	30	—	—	—	—	—	—	—	2725
Suicide	2	—	—	—	—	1	—	—	1	—	—	—	—	24	—	—	91
Accident	19	—	1	2	5	5	2	3	1	—	53	63	122	118	65	312	91
Other causes	12	—	—	1	—	2	2	5	2	—	—	—	—	—	—	—	—
All causes	432	2	3	13	18	47	86	76	187	143	158	407	440	1110	2813	7892	16985
Years of life (Census population × 3)	19,935	1,398	1,893	3,192	4,095	4,236	3,057	963	1,101								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	58	45	102	69	96	109	158	125								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	944
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	96

OCCUPATIONAL GROUP 16.—CEMENT WORKERS, LIME BURNERS, ETC. (091–099 part).*

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	7	—	—	1	—	2	1	2	1	—	—	17	—	46	39	253	142
Respiratory tuberculosis	24	—	2	6	7	6	2	1	—	—	58	100	125	138	78	127	—
Other tuberculosis	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	142
Syphilis, etc.	3	—	—	—	2	—	—	—	1	—	—	—	36	—	—	—	142
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	142
General paralysis of insane	2	—	—	—	2	—	—	—	—	—	—	—	36	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	35	—	1	1	3	8	8	4	10	—	29	17	54	184	311	507	1425
Skin	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	142
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	—	1	—	—	—	—	—	—	—	39	—	—
Œsophagus	2	—	—	—	—	1	—	—	1	—	—	—	—	23	—	—	142
Stomach	8	—	—	1	1	2	1	—	3	—	—	17	18	46	39	—	427
Other sites	23	—	1	—	2	5	6	4	5	—	29	—	36	115	233	507	712
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	4	—	—	2	—	2	—	—	—	—	—	33	—	46	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	17	—	—	—	—	—	2	5	10	—	—	—	—	—	78	634	1425
Other dis. of the nervous system	2	—	—	—	—	—	2	—	—	—	—	—	—	—	78	—	—
Valvular disease of heart	11	—	—	1	1	1	3	2	3	—	—	17	18	23	117	253	427
Other heart disease	18	—	—	—	2	2	—	5	9	—	—	—	36	46	—	634	1282
Arterio-sclerosis	8	—	—	—	—	1	—	3	4	—	—	—	—	23	—	380	570
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	21	—	—	1	1	1	2	5	11	—	—	17	18	23	78	634	1567
Pneumonia	28	—	1	1	4	6	8	1	7	—	29	17	72	138	311	127	997
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	4	—	—	—	1	—	—	2	1	—	—	—	18	—	—	253	142
Ulcer of stomach	5	1	—	1	1	2	—	—	—	41	—	17	18	46	—	—	—
Ulcer of duodenum	1	—	—	—	—	1	—	—	—	—	—	—	—	23	—	—	—
Appendicitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hernia	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	285
Intestinal obstruction	2	—	—	—	—	1	—	—	1	—	—	—	—	23	—	—	142
Cirrhosis of liver	1	—	—	—	—	1	—	—	—	—	—	—	—	23	—	—	—
Other dis. of digestive system	5	1	—	—	—	1	1	—	2	41	—	—	—	23	39	—	285
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	4	—	—	—	1	—	3	—	—	—	—	—	18	—	117	—	—
Diseases of the prostate	4	—	—	—	—	—	—	1	3	—	—	—	—	—	—	127	427
Other genito-urinary diseases	2	—	—	—	—	1	—	—	1	—	—	—	—	23	—	—	142
Old age	22	—	—	—	—	—	—	2	20	—	—	—	—	—	—	253	2849
Suicide	6	—	1	1	—	1	1	—	2	—	29	17	—	23	39	—	285
Accident	19	2	2	2	4	3	4	—	2	81	58	33	72	69	156	—	285
Other causes	10	—	—	1	3	2	2	—	2	—	—	—	—	—	—	—	—
All causes	266	4	7	18	30	42	39	33	93	162	201	301	536	964	1517	4183	13248
Years of life (Census population × 3)	25,935	2,463	3,474	5,988	5,592	4,356	2,571	789	702								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	66	57	75	84	83	59	84	98								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	717
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	72

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* This group comprises Lime Burners, and Foremen and Other Skilled or Unskilled Workers employed in making Lime, Whiting, Cement, Plaster, Artificial Stone and Concrete (Ind. Code No. 053–055).

OCCUPATIONAL GROUP 17.—BRICK AND PLAIN TILE MAKERS, MOULDERS, ETC.; FURNACE AND CRUCIBLE POT MAKERS (102, 103).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	18	—	—	2	2	3	2	3	6	—	—	32	33	66	77	358	445
Respiratory tuberculosis ..	38	—	1	8	9	12	4	1	3	—	31	129	149	265	153	119	223
Other tuberculosis	3	—	—	1	1	1	—	—	—	—	—	16	17	22	—	—	—
Syphilis, etc.	10	—	—	—	2	2	4	2	—	—	—	—	33	44	153	239	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	2	—	—	—	—	—	1	1	—	—	—	—	—	—	38	119	—
General paralysis of insane	2	—	—	—	—	1	1	—	—	—	—	—	—	22	38	—	—
Aneurysm	6	—	—	—	2	1	2	1	—	—	—	—	33	22	77	119	—
Cancer, all sites	58	—	—	1	—	5	14	8	30	—	—	16	—	111	536	956	2227
Skin	7	—	—	—	—	1	—	1	5	—	—	—	—	22	—	119	371
Lip	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	148
Tongue	3	—	—	—	—	—	2	—	1	—	—	—	—	—	77	—	74
Œsophagus	3	—	—	—	—	1	—	1	1	—	—	—	—	22	—	119	74
Stomach	12	—	—	—	—	1	5	2	4	—	—	—	—	22	191	239	297
Other sites	31	—	—	1	—	2	7	4	17	—	—	16	—	44	268	478	1262
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	148
Diabetes	2	—	—	1	—	—	—	—	1	—	—	16	—	—	—	—	74
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	38	—	—	—	1	—	4	4	29	—	—	—	17	—	153	478	2153
Other dis. of the nervous system	10	1	—	1	1	1	1	2	3	32	—	16	17	22	38	239	223
Valvular disease of heart ..	32	1	—	1	1	4	7	6	12	32	—	16	17	88	268	717	891
Other heart disease	39	—	1	1	—	2	7	4	24	—	31	16	—	44	268	478	1782
Arterio-sclerosis	26	—	—	—	—	—	2	2	22	—	—	—	—	—	77	239	1634
Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	38	—	—
Bronchitis..	64	—	—	—	2	4	12	7	39	—	—	—	33	88	459	836	2895
Pneumonia	24	3	—	3	3	5	2	2	6	95	—	48	50	111	77	239	445
Chronic interstitial pneumonia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	38	—	—
Other dis. of respiratory system	7	—	—	—	—	1	1	2	3	—	—	—	—	22	38	239	223
Ulcer of stomach	4	—	—	—	2	—	2	—	—	—	—	—	33	—	77	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hernia	3	—	—	—	—	—	1	—	2	—	—	—	—	—	38	—	148
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	119	74
Other dis. of digestive system ..	7	—	1	1	—	1	—	1	3	—	31	16	—	22	—	119	223
Acute nephritis	1	—	—	1	—	—	—	—	—	—	—	16	—	—	—	—	—
Chronic nephritis	10	—	1	—	—	1	2	2	4	—	31	—	—	22	77	239	297
Diseases of the prostate ..	7	—	—	—	—	1	—	—	6	—	—	—	—	22	—	—	445
Other genito-urinary diseases ..	4	—	—	—	—	—	1	1	2	—	—	—	—	—	38	119	148
Old age	56	—	—	—	—	—	1	1	54	—	—	—	—	—	38	119	4010
Suicide	4	—	—	—	—	2	2	—	—	—	—	—	—	44	77	—	—
Accident	11	—	1	1	—	—	2	1	6	—	31	16	—	—	77	119	445
Other causes	20	1	1	—	—	1	5	3	9	—	—	—	—	—	—	—	—
All causes	502	6	6	22	24	46	78	53	267	190	186	355	398	1017	2985	6332	19822
Years of life (Census population × 3)	27,927	3,153	3,228	6,201	6,027	4,521	2,613	837	1,347								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	77	53	89	62	88	116	127	146								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	926
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	91

OCCUPATIONAL GROUP 18.—POTTERS' MILL WORKERS; SLIP MAKERS; POTTERS (104, 105).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	13	—	—	2	3	2	3	2	1	—	—	34	46	32	93	238	178
Respiratory tuberculosis ..	111	3	8	10	27	39	21	3	—	135	308	172	410	616	648	357	—
Other tuberculosis	4	—	—	1	—	3	—	—	—	—	—	17	—	47	—	—	—
Syphilis, etc.	4	—	—	—	1	1	1	1	—	—	—	—	15	16	31	119	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	31	—	—
General paralysis of insane	1	—	—	—	1	—	—	—	—	—	—	—	15	—	—	—	—
Aneurysm	2	—	—	—	—	1	—	1	—	—	—	—	—	16	—	119	—
Cancer, all sites	43	—	—	—	—	12	14	10	7	—	—	—	—	189	432	1190	1248
Skin	2	—	—	—	—	1	—	—	1	—	—	—	—	16	—	—	178
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	3	—	—	—	—	—	2	1	—	—	—	—	—	—	62	119	—
Œsophagus	5	—	—	—	—	3	—	2	—	—	—	—	—	47	—	238	—
Stomach	6	—	—	—	—	—	3	2	1	—	—	—	—	—	93	238	178
Other sites	27	—	—	—	—	8	9	5	5	—	—	—	—	126	278	595	891
Chronic rheumatism, etc., Gout	3	—	—	—	—	1	1	—	1	—	—	—	—	16	31	—	178
Diabetes	2	—	1	—	—	—	1	—	—	—	39	—	—	—	31	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	22	—	—	1	—	6	5	2	8	—	—	17	—	95	154	238	1426
Other dis. of the nervous system	10	—	—	1	1	1	7	—	—	—	—	17	15	16	216	—	—
Valvular disease of heart ..	32	1	1	—	4	7	10	5	4	45	39	—	61	110	309	595	713
Other heart disease	31	1	—	—	—	8	8	3	11	45	—	—	—	126	247	357	1961
Arterio-sclerosis	15	—	—	—	—	—	8	2	5	—	—	—	—	—	247	238	891
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis..	94	—	—	1	4	13	43	14	19	—	—	17	61	205	1327	1667	3387
Pneumonia	28	—	—	2	8	7	8	2	1	—	—	34	121	110	247	238	178
Chronic interstitial pneumonia	4	—	—	—	1	1	2	—	—	—	—	—	15	16	62	—	—
Other dis. of respiratory system	13	—	—	2	1	1	5	—	4	—	—	34	15	16	154	—	713
Ulcer of stomach	4	—	—	1	1	2	—	—	—	—	—	17	15	32	—	—	—
Ulcer of duodenum	2	—	—	—	1	—	1	—	—	—	—	—	15	—	31	—	—
Appendicitis	2	—	1	—	—	1	—	—	—	—	39	—	—	16	—	—	—
Hernia	3	—	—	—	—	1	1	—	1	—	—	—	—	16	31	—	178
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	5	—	—	—	—	2	3	—	—	—	—	—	—	32	93	—	—
Other dis. of digestive system ..	5	—	—	—	1	1	2	—	1	—	—	—	15	16	62	—	178
Acute nephritis	3	1	—	—	—	—	1	1	—	45	—	—	—	—	31	119	—
Chronic nephritis	16	—	—	2	2	5	5	2	—	—	—	34	30	79	154	238	—
Diseases of the prostate ..	3	—	—	—	—	1	—	2	—	—	—	—	—	16	—	238	—
Other genito-urinary diseases ..	2	—	—	—	—	1	—	—	1	—	—	—	—	16	—	—	178
Old age	22	—	—	—	—	—	—	—	22	—	—	—	—	—	—	—	3922
Suicide	10	—	—	—	3	4	3	—	—	—	—	—	46	63	93	—	—
Accident	9	1	—	1	—	3	2	2	—	45	—	17	—	47	62	238	—
Other causes	16	2	—	1	3	2	4	2	2	—	—	—	—	—	—	—	—
All causes	531	9	11	25	61	125	159	53	88	404	424	429	926	1973	4907	6310	15686
Years of life (Census population × 3)	28,212	2,229	2,595	5,823	6,588	6,336	3,240	840	561								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	164	120	108	145	171	191	126	115								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,642
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	166

OCCUPATIONAL GROUP 19.—POTTERY DIPPERS, GLAZERS, PAINTERS, DECORATORS (107, 108).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	5	—	—	—	—	2	2	1	—	—	—	—	—	109	182	505	—
Respiratory tuberculosis	16	—	1	1	1	9	4	—	—	—	208	71	65	489	364	—	—
Other tuberculosis	2	—	1	—	—	1	—	—	—	—	208	—	—	54	—	—	—
Syphilis, etc.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	17	—	—	—	1	1	12	—	3	—	—	—	65	54	1093	—	1563
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	—	1	—	—	—	—	—	—	—	91	—	—
Œsophagus	1	—	—	—	—	—	1	—	—	—	—	—	—	—	91	—	—
Stomach	4	—	—	—	1	—	2	—	1	—	—	—	65	—	182	—	521
Other sites	11	—	—	—	—	1	8	—	2	—	—	—	—	54	729	—	1042
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	1	—	—	—	—	—	—	—	91	—	—
Diabetes	1	—	—	—	—	1	—	—	—	—	—	—	—	54	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	12	—	—	—	—	6	2	—	4	—	—	—	—	326	182	—	2083
Other dis. of the nervous system	4	—	—	—	1	1	—	1	1	—	—	—	65	54	—	505	521
Valvular disease of heart	8	1	—	—	3	1	—	2	1	168	—	—	196	54	—	1010	521
Other heart disease	18	—	—	—	1	3	6	3	5	—	—	—	65	163	546	1515	2604
Arterio-sclerosis	11	—	—	—	1	—	2	1	7	—	—	—	65	—	182	505	3646
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	15	—	—	—	—	2	5	2	6	—	—	—	—	109	455	1010	3125
Pneumonia	7	—	—	1	—	3	1	1	1	—	—	71	—	163	91	505	521
Chronic interstitial pneumonia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	521
Other dis. of respiratory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ulcer of stomach	1	—	—	1	—	—	—	—	—	—	—	71	—	—	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	2	—	—	—	—	1	1	—	—	—	—	—	—	54	91	—	—
Other dis. of digestive system	3	—	—	—	—	2	—	—	1	—	—	—	—	109	—	—	521
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	7	—	—	—	—	3	3	1	—	—	—	—	—	163	273	505	—
Diseases of the prostate	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	1042
Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	4	—	—	—	—	—	—	1	3	—	—	—	—	—	—	505	1563
Suicide	1	—	—	—	—	1	—	—	—	—	—	—	—	54	—	—	—
Accident	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other causes	11	—	—	—	4	1	4	1	1	—	—	—	—	—	—	—	—
All causes	149	1	2	3	12	38	43	14	36	168	417	214	783	2066	3916	7071	18750
Years of life (Census population × 3)	7,338	597	480	1,401	1,533	1,839	1,098	198	192								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	68	118	54	123	179	152	142	138								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,413
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 148

OCCUPATIONAL GROUP 20.—EARTHENWARE, CHINA, ETC., KILN AND OVEN MEN, AND KILN SETTERS AND PLACERS (109 part, 110 part).*

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	8	—	—	1	—	1	4	—	2	—	—	25	—	28	286	—	913
Respiratory tuberculosis	51	—	4	5	18	16	7	1	—	—	229	124	424	450	501	324	—
Other tuberculosis	2	—	—	—	1	—	1	—	—	—	—	—	24	—	72	—	—
Syphilis, etc.	3	—	—	—	1	1	—	1	—	—	—	—	24	28	—	324	—
Syphilis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	324	—
Tabes dorsalis	2	—	—	—	1	1	—	—	—	—	—	—	24	28	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	31	—	—	2	1	11	10	5	2	—	—	49	24	309	715	1618	913
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	—	2	—	—	—	—	—	—	—	143	—	—
Œsophagus	2	—	—	—	—	—	2	—	—	—	—	—	—	—	143	—	—
Stomach	7	—	—	—	—	2	2	1	2	—	—	—	—	56	143	324	913
Other sites	20	—	—	2	1	9	4	4	—	—	—	49	24	253	286	1294	—
Chronic rheumatism, etc., Gout	3	—	—	—	—	2	1	—	—	—	—	—	—	56	72	—	—
Diabetes	1	—	—	—	—	1	—	—	—	—	—	—	—	28	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	8	—	—	1	—	5	2	—	—	—	—	25	—	141	143	—	—
Other dis. of the nervous system	6	—	—	—	1	2	2	1	—	—	—	—	24	56	143	324	—
Valvular disease of heart	8	—	—	—	1	3	2	2	—	—	—	—	24	84	143	647	—
Other heart disease	20	—	—	1	2	5	8	2	2	—	—	25	47	141	572	647	913
Arterio-sclerosis	11	—	—	—	—	—	1	4	6	—	—	—	—	—	72	1294	2740
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	44	—	—	—	3	11	14	7	9	—	—	—	71	309	1001	2265	4110
Pneumonia	21	—	—	1	8	6	4	1	1	—	—	25	188	169	286	324	457
Chronic interstitial pneumonia	1	—	—	—	1	—	—	—	—	—	—	—	24	—	—	—	—
Other dis. of respiratory system	7	—	—	—	—	5	2	—	—	—	—	—	—	141	143	—	—
Ulcer of stomach	1	—	—	—	1	—	—	—	—	—	—	—	24	—	—	—	—
Ulcer of duodenum	3	—	—	1	1	1	—	—	—	—	—	25	24	28	—	—	—
Appendicitis	2	—	1	—	—	1	—	—	—	—	57	—	—	28	—	—	—
Hernia	1	—	—	—	—	1	—	—	—	—	—	—	—	28	—	—	—
Intestinal obstruction	1	—	—	—	—	1	—	—	—	—	—	—	—	28	—	—	—
Cirrhosis of liver	1	—	—	—	—	—	1	—	—	—	—	—	—	—	72	—	—
Other dis. of digestive system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	457
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	10	—	—	1	1	2	4	—	2	—	—	25	24	56	286	—	913
Diseases of the prostate	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	913
Other genito-urinary diseases	5	—	—	—	—	4	—	—	1	—	—	—	—	113	—	—	457
Old age	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	324	913
Suicide	5	—	1	—	2	1	—	1	—	—	57	—	47	28	—	324	—
Accident	5	—	—	—	1	2	1	1	—	—	—	—	24	56	72	324	—
Other causes	26	1	—	—	11	5	7	2	—	—	—	—	—	—	—	—	—
All causes	291	1	6	13	54	87	71	29	30	72	344	321	1271	2447	5079	9385	13699
Years of life (Census population × 3)	16,914	1,395	1,743	4,047	4,248	3,555	1,398	309	219								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	29	98	80	199	212	197	188	101								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,830
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 183

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* This group comprises Kiln and Oven Men and Odd Men, and Kiln Setters and Placers employed in the manufacture of Earthenware, China, Terra Cotta and Porcelain (Ind. Code No. 063).

OCCUPATIONAL GROUP 21.—BRICK, TILE, ETC., KILN AND OVEN MEN (109 part and 110 part)*.

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	9	1	—	—	3	1	1	2	1	163	—	—	69	29	52	375	300
Respiratory tuberculosis	16	1	2	1	5	2	5	—	—	163	153	29	115	57	261	—	—
Other tuberculosis	1	—	—	1	—	—	—	—	—	—	—	29	—	—	—	—	—
Syphilis, etc.	3	—	—	—	—	2	1	—	—	—	—	—	—	57	52	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	3	—	—	—	—	2	1	—	—	—	—	—	—	57	52	—	—
Cancer, all sites	30	—	—	—	2	4	8	9	7	—	—	—	46	114	417	1696	2102
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	2	—	—	—	—	1	—	1	—	—	—	—	—	29	—	187	—
Tongue	1	—	—	—	—	1	—	—	—	—	—	—	—	29	—	—	—
Œsophagus	3	—	—	—	—	—	2	1	—	—	—	—	—	—	104	187	—
Stomach	10	—	—	—	—	1	1	4	4	—	—	—	—	29	52	749	1201
Other sites	14	—	—	—	2	1	5	3	3	—	—	—	46	29	261	562	901
Chronic rheumatism, etc., Gout	2	—	—	1	—	—	—	1	—	—	—	29	—	—	—	187	—
Diabetes	1	—	—	—	1	—	—	—	—	—	—	—	23	—	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	14	—	—	—	—	—	4	1	9	—	—	—	—	—	209	187	2703
Other dis. of the nervous system	2	—	—	—	1	—	1	—	—	—	—	—	23	—	52	—	—
Valvular disease of heart	16	—	1	1	1	3	4	3	3	—	77	29	23	86	209	562	901
Other heart disease	14	—	—	2	—	2	3	2	5	—	—	57	—	57	156	375	1502
Arterio-sclerosis	8	—	—	—	—	—	1	2	5	—	—	—	—	—	52	375	1502
Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	52	—	—
Bronchitis	24	—	—	—	1	2	6	5	10	—	—	—	23	57	313	936	3003
Pneumonia	14	—	—	—	2	3	4	1	4	—	—	—	46	86	209	187	1201
Chronic interstitial pneumonia	3	—	—	—	—	—	2	1	—	—	—	—	—	—	104	187	—
Other dis. of respiratory system	3	—	—	—	1	—	1	1	—	—	—	—	23	—	52	187	—
Ulcer of stomach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ulcer of duodenum	1	—	—	—	—	1	—	—	—	—	—	—	—	29	—	—	—
Appendicitis	1	—	—	—	1	—	—	—	—	—	—	—	23	—	—	—	—
Hernia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	187	—
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	2	—	—	—	—	1	—	—	1	—	—	—	—	29	—	—	300
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	11	—	—	—	1	3	2	3	2	—	—	—	23	86	104	562	601
Diseases of the prostate	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	187	300
Other genito-urinary diseases	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	375	—
Old age	24	—	—	—	—	—	1	2	21	—	—	—	—	—	52	375	6306
Suicide	5	—	—	—	—	1	3	—	1	—	—	—	—	29	156	—	300
Accident	9	—	—	—	3	3	—	2	1	—	—	—	69	86	—	375	300
Other causes	19	—	—	—	5	3	5	—	6	—	—	—	—	—	—	—	—
All causes	238	2	3	6	27	31	53	39	77	327	230	172	622	884	2765	7303	23123
Years of life (Census population × 3)	16,041	612	1,305	3,489	4,344	3,507	1,917	534	333								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	132	65	43	97	76	108	146	170								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	878
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	88

OCCUPATIONAL GROUP 22.—OTHER PERSONS ENGAGED IN THE MANUFACTURE OF BRICKS, TILES AND POTTERY (118 and 119).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	31	3	2	4	5	3	8	1	5	23	21	30	41	29	130	53	396
Respiratory tuberculosis	94	11	9	14	23	30	5	2	—	86	95	104	189	290	81	105	—
Other tuberculosis	10	—	3	2	3	1	1	—	—	—	32	15	25	10	16	—	—
Syphilis, etc.	11	—	—	1	3	5	2	—	—	—	—	7	25	48	33	—	—
Syphilis	3	—	—	—	2	1	—	—	—	—	—	—	16	10	—	—	—
Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	16	—	—
General paralysis of insane	5	—	—	1	1	2	1	—	—	—	—	7	8	19	16	—	—
Aneurysm	2	—	—	—	—	2	—	—	—	—	—	—	—	19	—	—	—
Cancer, all sites	92	2	—	1	7	17	34	12	19	16	—	7	58	164	553	633	1504
Skin	3	—	—	—	—	—	2	1	—	—	—	—	—	—	33	53	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	11	—	—	—	—	1	5	2	3	—	—	—	—	10	81	105	238
Œsophagus	7	—	—	—	—	1	2	1	3	—	—	—	—	10	33	53	238
Stomach	26	—	—	—	4	5	9	5	3	—	—	—	33	48	146	264	238
Other sites	45	2	—	1	3	10	16	3	10	16	—	7	25	97	260	158	792
Chronic rheumatism, etc., Gout	3	—	—	—	1	1	—	—	1	—	—	—	8	10	—	—	79
Diabetes	8	1	—	1	—	4	2	—	—	8	—	7	—	39	33	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	60	—	—	—	5	6	12	11	26	—	—	—	41	58	195	580	2059
Other dis. of the nervous system	22	1	2	1	2	3	10	—	3	8	21	7	16	29	163	—	238
Valvular disease of heart	65	2	—	4	5	11	14	10	19	16	—	30	41	106	228	527	1504
Other heart disease	73	1	—	2	4	10	18	13	25	8	—	15	33	97	293	686	1980
Arterio-sclerosis	35	—	—	—	1	2	10	5	17	—	—	—	8	19	163	264	1346
Other dis. of circulatory system	2	—	2	—	—	—	—	—	—	—	21	—	—	—	—	—	—
Bronchitis	122	—	1	3	7	16	29	22	44	—	11	22	58	154	472	1160	3484
Pneumonia	63	4	5	8	9	9	13	7	8	31	53	60	74	87	211	369	633
Chronic interstitial pneumonia	3	—	—	1	—	1	—	1	—	—	—	7	—	10	—	53	—
Other dis. of respiratory system	13	1	—	—	2	3	4	—	3	8	—	—	16	29	65	—	238
Ulcer of stomach	12	—	1	2	2	3	3	1	—	—	11	15	16	29	49	53	—
Ulcer of duodenum	4	—	—	1	1	2	—	—	—	—	—	7	8	19	—	—	—
Appendicitis	8	2	1	1	2	—	2	—	—	16	11	7	16	—	33	—	—
Hernia	4	—	—	—	—	1	—	1	2	—	—	—	—	10	—	53	158
Intestinal obstruction	4	—	—	—	—	—	2	1	1	—	—	—	—	—	33	53	79
Cirrhosis of liver	2	—	—	—	—	1	1	—	—	—	—	—	—	10	16	—	—
Other dis. of digestive system	17	1	1	3	—	3	1	2	6	8	11	22	—	29	16	105	475
Acute nephritis	2	1	—	—	1	—	—	—	—	8	—	—	8	—	—	—	—
Chronic nephritis	22	1	3	—	4	3	7	1	3	8	32	—	33	29	114	53	238
Diseases of the prostate	7	—	—	—	—	—	1	1	5	—	—	—	—	—	16	53	396
Other genito-urinary diseases	8	—	—	2	1	2	1	—	2	—	—	15	8	19	16	—	158
Old age	57	—	—	—	—	—	1	2	54	—	—	—	—	—	16	105	4276
Suicide	15	—	—	2	1	4	5	2	1	—	—	15	8	39	81	105	79
Accident	40	7	5	3	8	9	6	1	1	55	53	22	66	87	98	53	79
Other causes	31	4	2	5	2	7	3	4	4	—	—	—	—	—	—	—	—
All causes	940	42	37	61	99	157	195	100	249	329	389	454	814	1515	3171	5274	19715
Years of life (Census population × 3)	67,548	12,774	9,504	13,434	12,165	10,362	6,150	1,896	1,263								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	133	111	114	127	131	123	106	145								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,243
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	124

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* This group comprises all Kiln and Oven Men and Odd Men, and Kiln Setters and Placers who were not returned as employed in the Manufacture of Earthenware, China, Terra Cotta and Porcelain.

OCCUPATIONAL GROUP 23.—SKILLED GLASS HOUSE WORKERS, *i.e.*, those engaged in Processes involving Exposure to Heat (122-125).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	14	—	1	2	3	1	3	4	—	—	20	25	44	18	108	617	—
Respiratory tuberculosis	66	4	11	19	16	9	6	—	1	62	216	241	236	160	216	—	142
Other tuberculosis	1	—	—	—	—	1	—	—	—	—	—	—	—	18	—	—	—
Syphilis, etc.	6	—	—	—	—	2	2	—	2	—	—	—	—	36	72	—	284
Syphilis	2	—	—	—	—	—	1	—	1	—	—	—	—	—	36	—	142
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	3	—	—	—	—	2	1	—	—	—	—	—	—	36	36	—	—
Aneurysm	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	142
Cancer, all sites	53	—	—	2	—	15	18	7	11	—	—	25	—	267	648	1080	1560
Skin	4	—	—	—	—	—	1	1	2	—	—	—	—	—	36	154	284
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	3	—	—	—	—	2	—	1	—	—	—	—	—	36	—	154	—
Œsophagus	2	—	—	—	—	2	—	—	—	—	—	—	—	36	—	—	—
Stomach	8	—	—	1	—	1	3	—	3	—	—	13	—	18	108	—	426
Other sites	36	—	—	1	—	10	14	5	6	—	—	13	—	178	504	772	851
Chronic rheumatism, etc., Gout	5	—	—	—	—	1	—	2	2	—	—	—	—	18	—	309	284
Diabetes	10	1	—	—	2	2	5	—	—	16	—	—	30	36	180	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc	37	—	—	1	1	2	8	10	15	—	—	13	15	36	288	1543	2128
Other dis. of the nervous system	10	1	3	3	—	—	1	1	1	16	59	38	—	—	36	154	142
Valvular disease of heart	24	1	1	3	1	3	9	4	2	16	20	38	15	53	324	617	284
Other heart disease	31	—	—	1	2	6	4	8	10	—	—	13	30	107	144	1235	1418
Arterio-sclerosis	27	—	—	1	1	3	3	4	15	—	—	13	15	53	108	617	2128
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	70	—	—	—	4	12	12	13	29	—	—	—	59	214	432	2006	4113
Pneumonia	29	2	—	6	5	5	4	2	5	31	—	76	74	89	144	309	709
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	6	—	—	—	—	1	4	—	1	—	—	—	—	18	144	—	142
Ulcer of stomach	3	—	—	—	1	1	1	—	—	—	—	—	15	18	36	—	—
Ulcer of duodenum	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	154	—
Appendicitis	2	—	—	1	1	—	—	—	—	—	—	13	15	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	1	—	—	—	—	1	—	—	—	—	—	—	—	18	—	—	—
Cirrhosis of liver	2	—	—	—	—	2	—	—	—	—	—	—	—	36	—	—	—
Other dis. of digestive system	5	—	—	1	—	1	—	1	2	—	—	13	—	18	—	154	284
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	17	—	1	—	2	2	3	5	4	—	20	—	30	36	108	772	567
Diseases of the prostate	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	284
Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	22	—	—	—	—	—	—	2	20	—	—	—	—	—	—	309	2837
Suicide	11	—	2	3	1	5	—	—	—	—	39	38	15	89	—	—	—
Accident	9	—	—	—	2	3	—	—	4	—	—	—	30	53	—	—	567
Other causes	24	2	1	3	4	7	5	1	1	—	—	—	—	—	—	—	—
All causes	488	11	20	46	46	85	88	65	127	171	393	584	679	1515	3168	10031	18014
Years of life (Census population × 3)	35,925	6,438	5,094	7,881	6,771	5,610	2,778	648	705								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	69	112	146	106	131	123	201	133								

All Causes—ages 20-65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,244
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 125

OCCUPATIONAL GROUP 23a.—GLASS BLOWERS AND FINISHERS, NOT MACHINE HANDS (124).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	7	—	—	1	1	—	1	4	—	—	—	23	29	—	64	1084	—
Respiratory tuberculosis	38	3	8	8	11	6	2	—	—	64	265	188	318	208	128	—	—
Other tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis, etc.	5	—	—	—	—	1	2	—	2	—	—	—	—	35	128	—	430
Syphilis	2	—	—	—	—	—	1	—	1	—	—	—	—	—	64	—	215
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	2	—	—	—	—	1	1	—	—	—	—	—	—	35	64	—	—
Aneurysm	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	215
Cancer, all sites	30	—	—	1	—	10	11	5	3	—	—	23	—	347	702	1355	645
Skin	2	—	—	—	—	—	1	1	—	—	—	—	—	—	64	271	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	2	—	—	—	—	—	—	—	69	—	—	—
Œsophagus	2	—	—	—	—	2	—	—	—	—	—	—	—	69	—	—	—
Stomach	3	—	—	1	—	1	—	—	1	—	—	23	—	35	—	—	215
Other sites	21	—	—	—	—	5	10	4	2	—	—	—	—	174	639	1084	430
Chronic rheumatism, etc., Gout	4	—	—	—	—	—	—	2	2	—	—	—	—	—	—	542	430
Diabetes	6	1	—	—	1	—	4	—	—	21	—	—	29	—	255	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc	19	—	—	1	1	—	3	5	9	—	—	23	29	—	192	1355	1935
Other dis. of the nervous system	8	1	2	3	—	—	—	1	1	21	66	70	—	—	—	271	215
Valvular disease of heart	9	1	—	1	1	2	4	—	—	21	—	23	29	69	255	—	—
Other heart disease	20	—	—	1	1	4	1	4	9	—	—	23	29	139	64	1084	1935
Arterio-sclerosis	16	—	—	1	1	1	2	3	8	—	—	23	29	35	128	813	1720
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	39	—	—	—	2	7	9	7	14	—	—	—	58	243	575	1897	3012
Pneumonia	15	2	—	2	4	2	2	1	2	43	—	47	116	69	128	271	430
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	5	—	—	—	—	—	4	—	1	—	—	—	—	—	255	—	215
Ulcer of stomach	2	—	—	—	1	—	1	—	—	—	—	—	29	—	64	—	—
Ulcer of duodenum	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	271	—
Appendicitis	1	—	—	—	1	—	—	—	—	—	—	—	29	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	1	—	—	—	—	1	—	—	—	—	—	—	—	35	—	—	—
Cirrhosis of liver	2	—	—	—	—	2	—	—	—	—	—	—	—	69	—	—	—
Other dis. of digestive system	4	—	—	—	—	1	—	1	2	—	—	—	—	35	—	271	430
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	14	—	1	—	1	2	2	5	3	—	33	—	29	69	128	1355	645
Diseases of the prostate	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	215
Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	13	—	—	—	—	—	—	1	12	—	—	—	—	—	—	271	2581
Suicide	5	—	—	2	1	2	—	—	—	—	—	47	29	69	—	—	—
Accident	4	—	—	—	1	1	—	—	2	—	—	—	29	35	—	—	430
Other causes	13	—	—	1	2	4	4	1	1	—	—	—	—	—	—	—	—
All causes	282	8	11	22	30	46	52	41	72	170	364	517	867	1597	3321	11111	15484
Years of life (Census population × 3)	20,709	4,695	3,018	4,257	3,459	2,880	1,566	369	465								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	69	103	130	136	138	129	223	114								

All Causes—ages 20-65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,314
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 131

OCCUPATIONAL GROUP 24.—OTHER SKILLED GLASS WORKERS (126, 127, 138).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 25.—CHEMICAL WORKERS (141-149).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
13	—	1	2	1	4	4	1	—	—	24	32	20	87	178	148	—	Influenza	43	1	1	5	10	10	8	3	5	17	11	23	41	49	73	109	256
66	5	8	11	16	15	8	—	3	112	189	176	317	326	356	—	389	Respiratory tuberculosis ..	99	—	13	20	27	20	16	3	—	—	148	92	112	97	146	109	—
4	1	—	2	1	—	—	—	—	22	—	32	20	—	—	—	—	Other tuberculosis	8	—	1	2	4	1	—	—	—	—	11	9	17	5	—	—	—
7	—	—	—	2	4	—	1	—	—	—	—	40	87	—	148	—	Syphilis, etc.	18	—	—	1	6	5	4	2	—	—	—	5	25	24	37	73	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Syphilis	3	—	—	—	—	1	1	1	—	—	—	—	—	5	9	36	—
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	148	—	Tabes dorsalis	2	—	—	—	—	1	—	1	—	—	—	—	—	5	—	36	—
5	—	—	—	2	3	—	—	—	—	—	—	40	65	—	—	—	General paralysis of insane ..	8	—	—	1	5	1	1	—	—	—	—	5	21	5	9	—	—
1	—	—	—	—	1	—	—	—	—	—	—	—	22	—	—	—	Aneurysm	5	—	—	—	1	2	2	—	—	—	—	—	4	10	18	—	—
49	—	—	—	3	11	16	8	11	—	—	—	59	239	711	1185	1427	Cancer, all sites	147	—	1	2	12	41	69	10	12	—	11	9	50	200	630	363	614
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	130	Skin	7	—	—	—	1	3	3	—	—	—	—	—	4	15	27	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	36	—
3	—	—	—	—	1	—	1	1	—	—	—	—	22	—	148	130	Tongue	8	—	—	—	1	1	4	—	2	—	—	—	4	5	37	—	102
5	—	—	—	—	1	2	2	—	—	—	—	—	22	89	296	—	Œsophagus	11	—	—	1	1	2	6	1	—	—	—	5	4	10	55	36	—
8	—	—	—	—	4	3	—	1	—	—	—	—	87	133	—	130	Stomach	26	—	—	—	3	7	15	1	—	—	—	—	12	34	137	36	—
32	—	—	—	3	5	11	5	8	—	—	—	59	109	489	741	1038	Other sites	94	—	1	1	6	28	41	7	10	—	11	5	25	136	374	254	512
3	—	—	—	—	—	1	1	1	—	—	—	—	—	44	148	130	Chronic rheumatism, etc., Gout	4	—	1	—	—	1	—	2	—	—	11	—	—	5	—	73	—
5	—	—	1	—	—	4	—	—	—	—	16	—	—	178	—	—	Diabetes	12	—	—	1	3	—	3	3	2	—	—	5	12	—	27	109	102
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	—	—	—	1	3	9	4	12	—	—	—	20	65	400	593	1556	Cerebral hæmorrhage, etc. ..	63	—	1	—	4	4	11	16	27	—	11	—	17	19	100	581	1382
10	—	1	2	1	—	3	2	1	—	24	32	20	—	133	296	130	Other dis. of the nervous system	14	—	3	—	3	3	3	1	1	—	34	—	12	15	27	36	51
17	—	3	—	2	2	4	4	2	—	71	—	40	44	178	593	259	Valvular disease of heart ..	68	1	—	5	7	10	18	11	16	17	—	23	29	49	164	399	819
31	—	—	1	2	3	4	8	13	—	—	16	40	65	178	1185	1686	Other heart disease	78	—	1	4	7	13	18	13	22	—	11	18	29	63	164	472	1126
18	—	—	—	—	3	3	4	8	—	—	—	—	65	133	593	1038	Arterio-sclerosis	34	—	—	—	1	1	7	10	15	—	—	—	4	5	64	363	768
1	—	—	—	—	—	1	—	—	—	—	—	—	—	44	—	—	Other dis. of circulatory system	2	—	—	—	2	—	—	—	—	—	—	—	8	—	—	—	—
43	—	—	—	2	9	10	6	16	—	—	—	40	196	444	889	2075	Bronchitis	110	—	1	2	7	14	27	19	40	—	11	9	29	68	247	690	2048
35	—	4	4	4	5	10	2	6	—	95	64	79	109	444	296	778	Pneumonia	84	1	4	10	17	17	17	8	10	17	45	46	70	83	155	290	512
1	—	—	—	—	1	—	—	—	—	—	—	—	22	—	—	—	Chronic interstitial pneumonia :	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	—	—	—	1	1	2	1	3	—	—	—	20	22	89	148	389	Other dis. of respiratory system	6	—	—	1	3	2	—	—	—	—	—	5	12	10	—	—	—
3	—	—	—	—	—	1	1	1	—	—	—	—	—	44	148	130	Ulcer of stomach	7	—	—	—	2	2	1	2	—	—	—	—	8	10	9	73	—
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	130	Ulcer of duodenum	2	—	—	—	—	1	1	—	—	—	—	—	—	5	9	—	—
1	—	—	—	1	—	—	—	—	—	—	—	20	—	—	—	—	Appendicitis	10	—	2	3	1	3	1	—	—	—	23	14	4	15	9	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Hernia	1	—	—	—	1	—	—	—	—	—	—	—	4	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Intestinal obstruction	5	—	—	1	1	2	1	—	—	—	—	5	4	10	9	—	—
2	—	—	—	—	1	—	1	—	—	—	—	—	22	—	148	—	Cirrhosis of liver	6	—	—	—	—	3	3	—	—	—	—	—	—	15	27	—	—
3	—	—	—	—	—	1	1	1	—	—	—	—	—	44	148	130	Other dis. of digestive system ..	18	—	1	1	3	4	4	2	3	—	17	5	12	19	37	73	154
3	1	—	1	—	—	1	—	—	22	—	16	—	—	44	—	—	Acute nephritis	3	—	—	1	1	1	—	—	—	—	—	5	4	5	—	—	—
13	—	—	—	2	1	6	2	2	—	—	—	40	22	267	296	259	Chronic nephritis	32	1	—	—	1	7	6	10	7	16	—	—	4	34	55	363	358
4	—	—	—	—	—	1	—	3	—	—	—	—	—	44	—	389	Diseases of the prostate ..	7	—	—	—	—	—	2	2	3	—	—	—	—	—	18	73	154
1	—	—	1	—	—	—	—	—	—	—	16	—	—	—	—	—	Other genito-urinary diseases ..	5	—	—	—	2	—	1	1	1	—	—	—	8	—	9	36	51
24	—	—	—	—	—	—	2	22	—	—	—	—	—	—	296	2853	Old age	24	—	—	—	—	—	1	—	23	—	—	—	—	—	9	—	1178
7	—	—	2	2	2	1	—	—	—	—	32	40	44	44	—	—	Suicide	13	—	—	1	2	5	1	2	2	—	—	5	8	24	9	73	102
10	1	3	—	—	1	2	1	2	22	71	—	—	22	89	148	259	Accident	60	—	3	8	16	13	10	8	2	—	34	37	66	63	91	290	102
18	—	1	3	3	3	—	2	6	—	—	—	—	—	—	—	—	Other causes	41	—	2	4	5	16	6	4	4	—	—	—	—	—	—	—	—
430	8	21	30	44	69	92	52	114	179	496	479	871	1501	4089	7704	14786	All causes	1,024	4	35	72	148	199	239	132	195	67	398	331	613	969	2182	4793	9985
28,287	4,458	4,230	6,258	5,049	4,596	2,250	675	771									Years of life (Census population × 3) in	96,831	5,934	8,802	21,759	24,135	20,541	10,9 53	2,754	1,953								
—	72	141	120	136	130	159	154	109									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	27	113	83	96	84	85	96	73								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,417
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	141

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	878
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	88

OCCUPATIONAL GROUP 26.—MAKERS OF PAINT, OIL, SOAP, GREASE, ETC. (151-159).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	22	—	—	4	7	3	6	1	1	—	—	27	52	27	94	61	74
Respiratory tuberculosis	76	4	10	20	14	19	6	2	1	63	124	136	103	174	94	121	74
Other tuberculosis	0	2	2	1	5	—	—	—	—	31	25	7	37	—	—	—	—
Syphilis, etc.	8	—	—	3	2	1	2	—	—	—	—	20	15	9	31	—	—
Syphilis		—	—	—	—	—	1	—	—	—	—	—	—	—	16	—	—
Tabes dorsalis		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	4	—	—	1	2	1	—	—	—	—	—	7	15	9	—	—	—
Aneurysm	3	—	—	2	—	—	1	—	—	—	—	14	—	—	16	—	—
Cancer, all sites	77	—	—	1	8	16	32	10	10	—	—	7	59	146	504	606	737
Skin	2	—	—	—	—	—	1	—	1	—	—	—	—	—	16	—	74
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	—	2	—	—	—	—	—	—	—	31	—	—
Œsophagus	10	—	—	—	—	4	4	1	1	—	—	—	—	37	63	61	74
Stomach	16	—	—	—	3	4	7	2	—	—	—	—	22	37	110	121	—
Other sites	47	—	—	1	5	8	18	7	8	—	—	7	37	73	283	424	590
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	1	1	—	—	—	—	—	—	16	61	—
Diabetes	4	—	—	1	—	—	2	—	1	—	—	7	—	—	31	—	74
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	42	—	—	1	1	6	15	7	12	—	—	7	7	55	236	424	885
Other dis. of the nervous system	17	3	1	2	1	3	2	2	3	47	12	14	7	27	31	121	221
Valvular disease of heart	44	—	4	2	4	7	12	7	8	—	49	14	29	64	189	424	590
Other heart disease	46	—	—	4	4	7	15	7	9	—	—	27	29	64	236	424	664
Arterio-sclerosis	19	—	—	—	—	—	5	2	12	—	—	—	—	—	79	121	885
Other dis. of circulatory system	2	—	—	—	1	1	—	—	—	—	—	—	7	9	—	—	—
Bronchitis	67	—	—	—	5	9	12	15	26	—	—	—	37	82	189	909	1917
Pneumonia	42	4	2	4	7	9	8	3	5	63	25	27	52	82	126	182	369
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	19	1	1	—	2	3	6	2	4	16	12	—	15	27	94	121	295
Ulcer of stomach	3	—	—	1	—	2	—	—	—	—	—	7	—	18	—	—	—
Ulcer of duodenum	1	—	—	—	1	—	—	—	—	—	—	—	7	—	—	—	—
Appendicitis	6	1	1	1	2	—	1	—	—	16	12	7	15	—	16	—	—
Hernia	4	—	1	—	—	—	2	—	1	—	12	—	—	—	31	—	74
Intestinal obstruction	1	—	1	—	—	—	—	—	—	—	12	—	—	—	—	—	—
Cirrhosis of liver	1	—	—	—	—	—	1	—	—	—	—	—	—	—	16	—	—
Other dis. of digestive system	16	—	—	1	1	3	3	2	6	—	—	7	7	27	47	121	442
Acute nephritis	1	—	—	1	—	—	—	—	—	—	—	7	—	—	—	—	—
Chronic nephritis	21	—	—	1	2	3	6	6	3	—	—	7	15	27	94	364	221
Diseases of the prostate	10	—	—	—	—	—	3	4	3	—	—	—	—	—	47	242	221
Other genito-urinary diseases	3	—	—	1	—	—	2	—	—	—	—	7	—	—	31	—	—
Old age	26	—	—	—	—	—	1	1	24	—	—	—	—	—	16	61	1770
Suicide	6	1	—	—	—	3	2	—	—	16	—	—	—	27	31	—	—
Accident	30	1	4	3	5	5	6	—	6	16	49	20	37	46	94	—	442
Other causes	31	2	4	2	6	8	4	3	2	—	—	—	—	—	—	—	—
All causes	657	19	31	54	78	108	155	75	137	297	383	366	575	987	2439	4545	10103
Years of life (Census population × 3)	63,108	6,399	8,094	14,748	13,566	10,941	6,354	1,650	1,356								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	120	109	92	90	85	95	91	74								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 918
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 92

OCCUPATIONAL GROUP 27.—PERSONS ENGAGED IN THE SMELTING, ROLLING AND CONVERTING OF IRON AND STEEL (170, 171 part, 172, 174, 178 part, 278 part, 279 part)*.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	125	4	5	13	20	22	30	13	18	14	14	22	36	51	125	169	315
Respiratory tuberculosis	311	17	29	72	81	73	31	6	2	58	83	120	146	169	129	78	35
Other tuberculosis	25	2	1	10	8	1	2	—	1	7	3	17	14	2	8	—	18
Syphilis, etc.	35	—	—	1	9	15	7	2	1	—	—	2	16	35	29	26	18
Syphilis	4	—	—	—	—	3	—	1	—	—	—	—	—	7	—	13	—
Tabes dorsalis	3	—	—	—	—	1	1	—	1	—	—	—	—	2	4	—	18
General paralysis of insane	16	—	—	1	8	6	1	—	—	—	—	2	14	14	4	—	—
Aneurysm	12	—	—	—	1	5	5	1	—	—	—	—	2	12	21	13	—
Cancer, all sites	392	—	1	6	21	86	140	58	80	—	3	10	38	199	584	752	1401
Skin	17	—	—	—	1	2	4	4	6	—	—	—	2	5	17	52	105
Lip	5	—	—	—	—	—	2	3	—	—	—	—	—	—	8	39	—
Tongue	34	—	—	—	—	11	14	3	6	—	—	—	—	25	58	39	105
Œsophagus	41	—	—	—	1	15	14	6	5	—	—	—	2	35	58	78	88
Stomach	84	—	—	—	10	20	24	15	15	—	—	—	18	46	100	194	263
Other sites	211	—	1	6	9	38	82	27	48	—	3	10	16	88	342	350	840
Chronic rheumatism, etc., Gout	13	—	—	—	—	2	6	3	2	—	—	—	—	5	25	39	35
Diabetes	20	1	—	3	3	3	6	2	2	3	—	5	5	7	25	26	35
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	213	2	—	2	5	15	47	36	106	7	—	3	9	35	196	467	1856
Other dis. of the nervous system	84	3	2	8	18	10	18	7	18	10	6	13	33	23	75	91	315
Valvular disease of heart	152	2	—	11	15	36	32	22	34	7	—	18	27	83	133	285	595
Other heart disease	191	2	2	11	11	18	47	34	66	7	6	18	20	42	196	441	1155
Arterio-sclerosis	146	—	—	1	1	6	29	27	82	—	—	2	2	14	121	350	1436
Other dis. of circulatory system	7	—	—	—	2	2	2	—	1	—	—	—	4	5	8	—	18
Bronchitis	289	—	1	2	14	31	62	54	125	—	3	3	25	72	258	700	2188
Pneumonia	305	4	20	41	67	53	62	24	34	14	57	68	121	123	258	311	595
Chronic interstitial pneumonia	4	—	—	—	—	—	2	1	1	—	—	—	—	—	8	13	18
Other dis. of respiratory system	59	—	2	8	8	14	15	3	9	—	6	13	14	32	63	39	158
Ulcer of stomach	20	—	—	—	9	3	5	2	1	—	—	—	16	7	21	26	18
Ulcer of duodenum	10	—	1	3	3	2	1	—	—	—	3	5	5	5	4	—	—
Appendicitis	18	4	2	4	3	1	3	1	—	14	6	7	5	2	13	13	—
Hernia	13	—	—	—	1	3	—	2	7	—	—	—	2	7	—	26	123
Intestinal obstruction	9	1	—	2	2	—	—	1	3	3	—	3	4	—	—	13	53
Cirrhosis of liver	22	—	—	—	—	4	9	4	5	—	—	—	—	9	38	52	88
Other dis. of digestive system	60	1	2	8	5	11	12	7	14	3	6	13	9	25	50	91	245
Acute nephritis	7	—	1	—	—	5	1	—	—	—	3	—	—	12	4	—	—
Chronic nephritis	78	—	—	4	4	16	18	16	20	—	—	7	7	37	75	207	350
Diseases of the prostate	20	—	—	—	—	—	2	4	14	—	—	—	—	—	8	52	245
Other genito-urinary diseases	27	—	—	3	1	4	5	4	10	—	—	5	2	9	21	52	175
Old age	210	—	—	—	—	—	2	15	193	—	—	—	—	—	8	194	3379
Suicide	55	2	2	4	8	12	16	5	6	7	6	7	14	28	67	65	105
Accident	154	10	8	19	36	29	24	8	20	34	23	32	65	67	100	104	350
Other causes	130	10	5	17	17	20	25	19	17	—	—	—	—	—	—	—	—
All causes	3,204	65	84	253	372	497	661	380	892	222	241	421	672	1152	2756	4927	15616
Years of life (Census population × 3)	260,106	29,217	34,821	60,144	55,365	43,149	23,985	7,713	5,712								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	90	68	106	105	100	107	99	115								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,025
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 102

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* This group comprises Converters; Skilled Furnacemen employed in the manufacture of Iron and Steel, Tinplate, and Galvanized Sheet (Ind. Code No. 110-3, 137, 138); Puddlers; Shinglers; Rollers, and "Other Skilled Metal Workers" (code number 278), and "Other Metal

OCCUPATIONAL GROUP 27a.—PUDDLERS (172).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	8	—	—	1	—	2	1	2	2	—	—	35	—	62	35	181	194
Respiratory tuberculosis	19	—	2	2	5	6	3	1	—	—	114	70	183	186	105	91	—
Other tuberculosis	4	—	—	2	—	1	—	—	1	—	—	70	—	31	—	—	97
Syphilis, etc.	3	—	—	—	—	1	1	1	—	—	—	—	—	31	35	91	—
Syphilis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	91	—
Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	35	—	—
General paralysis of insane	1	—	—	—	—	1	—	—	—	—	—	—	—	31	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	66	—	—	—	—	10	25	9	22	—	—	—	—	310	877	815	2138
Skin	7	—	—	—	—	—	2	2	3	—	—	—	—	—	70	181	292
Lip	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	91	—
Tongue	6	—	—	—	—	2	2	—	2	—	—	—	—	62	70	—	194
Œsophagus	5	—	—	—	—	2	3	—	—	—	—	—	—	62	105	—	—
Stomach	11	—	—	—	—	2	3	1	5	—	—	—	—	62	105	91	486
Other sites	36	—	—	—	—	4	15	5	12	—	—	—	—	124	526	453	1166
Chronic rheumatism, etc., Gout	4	—	—	—	—	—	2	2	—	—	—	—	—	—	70	181	—
Diabetes	2	—	—	—	—	—	1	1	—	—	—	—	—	—	35	91	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	41	—	—	—	—	2	9	7	23	—	—	—	—	62	316	634	2235
Other dis. of the nervous system	17	—	2	1	1	2	5	2	4	—	114	35	37	62	175	181	389
Valvular disease of heart	21	—	—	—	—	4	4	7	6	—	—	—	—	124	140	634	583
Other heart disease	29	—	—	—	—	2	5	10	12	—	—	—	—	62	175	906	1166
Arterio-sclerosis	39	—	—	—	—	—	5	8	26	—	—	—	—	—	175	725	2527
Other dis. of circulatory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	97
Bronchitis	73	—	—	—	3	4	14	17	35	—	—	—	110	124	491	1540	3401
Pneumonia	43	—	2	2	2	8	11	6	12	—	114	70	73	248	386	543	1166
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	3	—	—	—	—	1	1	—	1	—	—	—	—	31	35	—	97
Ulcer of stomach	2	—	—	—	1	1	—	—	—	—	—	—	37	31	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hernia	4	—	—	—	—	1	—	1	2	—	—	—	—	31	—	91	194
Intestinal obstruction	2	1	—	—	—	—	—	—	1	128	—	—	—	—	—	—	97
Cirrhosis of liver	3	—	—	—	—	—	—	2	1	—	—	—	—	—	—	181	97
Other dis. of digestive system	9	—	—	—	—	2	3	1	3	—	—	—	—	62	105	91	292
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	12	—	—	—	—	1	3	2	6	—	—	—	—	31	105	181	583
Diseases of the prostate	7	—	—	—	—	—	2	—	5	—	—	—	—	—	70	—	486
Other genito-urinary diseases	4	—	—	—	—	—	2	1	1	—	—	—	—	—	70	91	97
Old age	78	—	—	—	—	—	—	7	71	—	—	—	—	—	—	634	6900
Suicide	4	—	—	—	—	4	—	—	—	—	—	—	—	124	—	—	—
Accident	9	—	—	—	1	2	1	1	4	—	—	—	37	62	35	91	389
Other causes	21	—	—	3	—	3	5	6	4	—	—	—	—	—	—	—	—
All causes	528	1	6	11	13	57	103	94	243	128	341	386	475	1767	3614	8514	23615
Years of life (Census population × 3)	16,341	780	1,761	2,853	2,739	3,225	2,850	1,104	1,029								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	52	97	97	74	153	141	171	174								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,250
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	131

OCCUPATIONAL GROUP 28.—METAL MOULDERS (180).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	109	5	12	14	22	16	16	10	14	15	40	25	47	49	93	202	290
Respiratory tuberculosis	321	19	42	77	75	61	32	12	3	58	140	136	159	186	187	242	62
Other tuberculosis	26	3	8	6	2	1	3	1	2	9	27	11	4	3	17	20	41
Syphilis, etc.	32	—	—	3	8	11	6	1	3	—	—	5	17	33	35	20	62
Syphilis	2	—	—	1	1	—	—	—	—	—	—	2	2	—	—	—	—
Tabes dorsalis	6	—	—	—	—	2	3	—	1	—	—	—	—	6	17	—	21
General paralysis of insane	13	—	—	2	6	4	1	—	—	—	—	4	13	12	6	—	—
Aneurysm	11	—	—	—	1	5	2	1	2	—	—	—	2	15	12	20	41
Cancer, all sites	345	—	1	4	14	61	119	59	87	—	3	7	30	186	694	1191	1800
Skin	15	—	—	—	—	3	6	3	3	—	—	—	—	9	35	61	62
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	17	—	—	—	—	4	9	2	2	—	—	—	—	12	52	40	41
Œsophagus	30	—	—	—	—	4	10	5	11	—	—	—	—	12	58	101	228
Stomach	75	—	—	1	3	14	22	14	21	—	—	2	6	43	128	283	435
Other sites	208	—	1	3	11	36	72	35	50	—	3	5	23	110	420	707	1035
Chronic rheumatism, etc., Gout	21	—	—	—	1	—	5	3	12	—	—	—	2	—	29	61	248
Diabetes	21	—	—	2	5	5	4	3	2	—	—	4	11	15	23	61	41
Alcoholism	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	21
Cerebral hæmorrhage, etc.	222	1	—	2	9	19	41	31	119	3	—	4	19	58	239	626	2462
Other dis. of the nervous system	77	8	3	8	10	11	22	7	8	24	10	14	21	33	128	141	166
Valvular disease of heart	165	5	2	12	15	24	31	25	51	15	7	21	32	73	181	505	1055
Other heart disease	202	5	3	9	9	19	48	31	78	15	10	16	19	58	280	626	1614
Arterio-sclerosis	118	—	—	—	—	5	20	18	75	—	—	—	—	15	117	363	1552
Other dis. of circulatory system	3	—	—	—	2	—	—	—	1	—	—	—	4	—	—	—	21
Bronchitis	307	1	1	6	18	25	61	43	152	3	3	11	38	76	356	868	3145
Pneumonia	284	18	10	38	63	51	55	16	33	55	33	67	134	155	321	323	683
Chronic interstitial pneumonia	1	—	—	—	—	1	—	—	—	—	—	—	—	3	—	—	—
Other dis. of respiratory system	44	1	1	2	6	9	11	4	10	3	3	4	13	27	64	81	207
Ulcer of stomach	16	—	3	2	2	5	2	1	1	—	10	4	4	15	12	20	21
Ulcer of duodenum	10	—	1	1	2	2	1	1	2	—	3	2	4	6	6	20	41
Appendicitis	20	3		5	5	5	1	—	—	9	3	9	11	15	6	—	—
Hernia	9	—	—	—	2	2	2	1	2	—	—	—	4	6	12	20	41
Intestinal obstruction	13	1	1	1	1	5	2	1	1	3	3	2	2	15	12	20	21
Cirrhosis of liver	18	—	—	1	4	5	6	—	2	—	—	2	8	15	35	—	41
Other dis. of digestive system	38	3	1	4	5	4	5	4	12	9	3	7	11	12	29	81	248
Acute nephritis	8	—	—	3	2	1	1	—	1	—	—	5	4	3	6	—	21
Chronic nephritis	84	—	1	8	9	21	14	11	20	—	3	14	19	64	82	222	414
Diseases of the prostate	24	—	—	—	—	1	2	6	15	—	—	—	—	3	12	121	310
Other genito-urinary diseases	19	1	1	1	—	4	4	2	6	3	3	2	—	12	23	40	124
Old age	144	—	—	—	—	—	—	6	138	—	—	—	—	—	—	121	2855
Suicide	43	—	—	4	13	10	6	3	7	—	—	7	28	30	35	61	145
Accident	60	6	5	6	13	11	8	3	8	18	17	11	28	33	47	61	166
Other causes	114	13	4	11	12	20	23	16	15	—	—	—	—	—	—	—	—
All causes	2,919	93	101	230	329	415	551	319	881	283	336	405	698	1263	3212	6441	18229
Years of life (Census population × 3)	226,638	32,865	30,081	56,766	47,136	32,847	17,157	4,953	4,833								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	115	95	102	109	109	125	129	134								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,137
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	112

OCCUPATIONAL GROUP 29.—IRON FOUNDRY FURNACEMEN AND LABOURERS (182, 183).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 30.—BRASS FOUNDRY FURNACEMEN AND LABOURERS (184, 185).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
83	2	—	10	22	18	17	8	6	19	—	36	77	71	114	191	257	Influenza	10	—	—	—	2	2	5	1	—	—	—	—	61	74	308	214	—
185	8	19	32	51	45	21	3	6	76	139	116	179	177	141	72	257	Respiratory tuberculosis ..	43	3	2	10	10	10	6	2	—	205	130	355	307	372	370	427	—
10	4	1	1	1	2	—	1	—	38	7	4	4	8	—	24	—	Other tuberculosis	3	—	2	—	—	1	—	—	—	—	130	—	—	37	—	—	—
22	—	—	—	7	9	4	1	1	—	—	—	25	35	27	24	43	Syphilis, etc.	4	—	—	1	1	—	2	—	—	—	—	36	31	—	123	—	—
3	—	—	—	—	3	—	—	—	—	—	—	—	12	—	—	—	Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	1	1	1	—	—	—	—	—	4	7	24	—	Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	—	—	—	5	5	1	—	1	—	—	—	18	20	7	—	43	General paralysis of insane ..	3	—	—	1	1	—	1	—	—	—	—	36	31	—	62	—	—
4	—	—	—	2	—	2	—	—	—	—	—	7	—	13	—	—	Aneurysm	1	—	—	—	—	—	1	—	—	—	—	—	—	—	62	—	—
192	1	1	3	5	50	78	25	29	9	7	11	18	197	524	598	1244	Cancer, all sites	29	—	—	1	2	4	8	4	10	—	—	36	61	149	493	855	2976
8	—	—	—	—	2	2	1	3	—	—	—	—	8	13	24	129	Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	—	—	—	—	—	2	1	1	—	—	—	—	—	13	24	43	Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	—	—	—	—	4	8	2	1	—	—	—	—	16	54	48	43	Tongue	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	427	—
10	—	—	—	—	2	4	2	2	—	—	—	—	8	27	48	86	Œsophagus	5	—	—	—	—	—	1	1	3	—	—	—	—	—	62	214	893
42	—	—	1	2	14	15	7	3	—	—	4	7	55	101	167	129	Stomach	3	—	—	—	—	—	2	—	1	—	—	—	—	—	123	—	298
113	1	1	2	3	28	47	12	19	9	7	7	11	110	316	287	815	Other sites	19	—	—	1	2	4	5	1	6	—	—	36	61	149	308	214	1786
5	—	—	—	—	1	2	1	1	—	—	—	—	4	13	24	43	Chronic rheumatism, etc., Gout	1	—	—	—	—	—	1	—	—	—	—	—	—	—	62	—	—
15	—	—	1	—	4	6	1	3	—	—	4	—	16	40	24	129	Diabetes	2	—	—	1	—	—	—	—	1	—	—	36	—	—	—	—	298
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
88	—	—	3	1	10	23	16	35	—	—	11	4	39	155	383	1502	Cerebral hæmorrhage, etc. ..	18	1	—	—	—	1	9	1	6	68	—	—	—	37	555	214	1786
45	—	5	1	7	9	8	9	6	—	37	4	25	35	54	215	257	Other dis. of the nervous system	1	1	—	—	—	—	—	—	—	68	—	—	—	—	—	—	—
102	3	1	6	18	22	22	17	13	28	7	22	63	87	148	407	558	Valvular disease of heart ..	12	—	—	1	2	3	1	4	1	—	—	36	61	112	62	855	298
101	2	3	3	6	17	29	13	28	19	22	11	21	67	195	311	1201	Other heart disease	19	1	—	—	2	1	8	—	7	68	—	—	61	37	493	—	2083
88	—	—	—	2	5	23	19	39	—	—	—	7	20	155	454	1673	Arterio-sclerosis	10	—	—	—	—	2	2	1	5	—	—	—	—	74	123	214	1488
4	—	—	—	—	2	2	—	—	—	—	—	—	8	13	—	—	Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	62	—	—
176	—	—	2	12	26	52	30	54	—	—	7	42	103	349	717	2317	Bronchitis	31	—	—	—	3	1	7	5	15	—	—	—	92	37	431	1068	4464
229	6	14	32	45	55	50	15	12	57	103	116	158	217	336	359	515	Pneumonia	26	1	—	3	11	6	4	—	1	68	—	107	338	223	246	—	298
1	—	—	—	—	—	1	—	—	—	—	—	—	—	7	—	—	Chronic interstitial pneumonia ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18	—	—	2	1	6	5	1	3	—	—	7	4	24	34	24	129	Other dis. of respiratory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	62	—	—
9	1	1	—	3	1	2	1	—	9	7	—	11	4	13	24	—	Ulcer of stomach	3	—	—	—	1	1	1	—	—	—	—	—	31	37	62	—	—
5	—	1	1	2	—	1	—	—	—	7	4	7	—	7	—	—	Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	1	—	—	1	3	1	1	—	9	—	—	4	12	7	24	—	Appendicitis	3	—	—	—	—	—	2	—	1	—	—	—	—	—	123	—	298
4	—	—	—	—	—	2	1	1	—	—	—	—	—	13	24	43	Hernia	2	—	—	—	—	—	1	—	1	—	—	—	—	—	62	—	298
9	2	—	—	—	2	2	2	1	19	—	—	—	8	13	48	43	Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	—	—	—	1	2	2	1	—	—	—	—	4	13	48	43	Cirrhosis of liver	2	—	—	—	1	—	1	—	—	—	—	—	31	—	62	—	—
21	—	1	2	1	4	3	3	7	—	7	7	4	16	20	72	300	Other dis. of digestive system ..	1	—	—	—	1	—	—	—	—	—	—	—	31	—	—	—	—
4	—	—	—	1	2	—	1	—	—	—	—	4	8	—	24	—	Acute nephritis	1	—	—	—	—	1	—	—	—	—	—	—	—	37	—	—	—
61	—	3	5	11	15	15	6	6	—	22	18	39	59	101	143	257	Chronic nephritis	9	1	—	—	1	—	3	2	2	68	—	—	31	—	185	427	595
11	—	—	—	—	—	—	3	8	—	—	—	—	—	—	72	343	Diseases of the prostate ..	1	—	—	—	—	—	1	—	—	—	—	—	—	—	62	—	—
9	—	—	1	—	2	—	2	4	—	—	4	—	8	—	48	172	Other genito-urinary diseases ..	3	—	—	—	1	—	2	—	—	—	—	—	31	—	123	—	—
66	—	—	—	—	2	1	7	56	—	—	—	—	8	7	167	2402	Old age	7	—	—	—	—	—	—	2	5	—	—	—	—	—	—	427	1488
23	—	—	1	6	6	7	2	1	—	—	4	21	24	47	48	43	Suicide	4	—	—	—	2	1	—	1	—	—	—	—	61	37	—	214	—
47	4	2	3	10	11	10	3	4	38	15	11	35	43	67	72	172	Accident	8	2	—	2	—	1	1	—	2	137	—	71	—	37	62	—	595
65	3	4	7	8	14	10	8	11	—	—	—	—	—	—	—	—	Other causes	6	1	2	—	2	—	—	—	1	—	—	—	—	—	—	—	—
1,711	37	56	116	221	344	399	202	336	349	411	421	777	1356	2681	4830	14414	All causes	261	11	6	19	42	35	67	23	58	753	391	675	1289	1302	4128	4915	17262
126,984	10,590	13,626	27,555	28,455	25,362	14,883	4,182	2,331									Years of life (Census population × 3)	14,181	1,461	1,533	2,814	3,258	2,688	1,623	468	336								
—	141	117	106	122	117	104	97	106									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	305	111	169	202	113	160	98	127								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,116
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 112

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,530
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 151

OCCUPATIONAL GROUP 31.—SMITHS AND SKILLED FORGE WORKERS (190).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	187	3	7	13	28	20	42	27	47	8	18	17	34	28	85	156	257
Respiratory tuberculosis	460	26	51	97	96	90	80	13	7	71	132	126	119	124	162	75	38
Other tuberculosis	49	7	7	9	5	9	9	1	2	19	18	12	6	12	18	6	11
Syphilis, etc.	110	—	1	4	17	34	31	12	11	—	3	5	21	47	63	69	60
Syphilis	11	—	1	—	3	2	3	1	1	—	3	—	4	3	6	6	5
Tabes dorsalis	34	—	—	—	—	12	11	5	6	—	—	—	—	17	22	29	33
General paralysis of insane	38	—	—	4	13	13	5	1	2	—	—	5	16	18	10	6	11
Aneurysm	27	—	—	—	1	7	12	5	2	—	—	—	1	10	24	29	11
Cancer, all sites	856	2	2	4	29	148	273	161	237	5	5	5	36	204	554	929	1298
Skin	34	—	1	—	1	5	5	5	17	—	3	—	1	7	10	29	93
Lip	8	—	—	—	—	1	3	3	1	—	—	—	—	1	6	17	5
Tongue	54	—	—	—	2	7	19	10	16	—	—	—	2	10	39	58	88
Œsophagus	67	—	—	—	1	14	26	10	16	—	—	—	1	19	53	58	88
Stomach	188	—	—	—	8	36	62	28	54	—	—	—	10	50	126	162	296
Other sites	505	2	1	4	17	85	158	105	133	5	3	5	21	117	321	606	728
Chronic rheumatism, etc., Gout	27	—	—	—	1	2	10	3	11	—	—	—	1	3	20	17	60
Diabetes	59	1	2	4	7	9	24	7	5	3	5	5	9	12	49	40	27
Alcoholism	4	—	—	—	1	—	2	1	—	—	—	—	1	—	4	6	—
Cerebral hæmorrhage, etc.	530	—	2	1	7	29	90	113	288	—	5	1	9	40	183	652	1577
Other dis. of the nervous system	135	6	6	12	18	17	31	14	31	16	15	16	22	23	63	81	170
Valvular disease of heart	406	2	4	15	30	53	93	76	133	5	10	19	37	73	189	439	728
Other heart disease	476	1	2	12	15	40	89	89	228	3	5	16	19	55	181	514	1249
Arterio-sclerosis	409	—	—	—	—	14	62	63	270	—	—	—	—	19	126	364	1479
Other dis. of circulatory system	14	—	—	—	2	2	4	1	5	—	—	—	2	3	8	6	27
Bronchitis	663	1	—	3	18	34	128	102	377	3	—	4	22	47	260	589	2065
Pneumonia	409	5	11	39	64	79	76	52	83	14	28	50	80	109	154	300	455
Chronic interstitial pneumonia	1	—	—	—	1	—	—	—	—	—	—	—	1	—	—	—	—
Other dis. of respiratory system	88	1	2	1	6	15	17	12	34	3	5	1	7	21	35	69	186
Ulcer of stomach	31	—	1	4	9	6	7	2	2	—	3	5	11	8	14	12	11
Ulcer of duodenum	22	—	—	3	6	6	4	2	1	—	—	4	7	8	8	12	5
Appendicitis	22	1	4	1	2	6	6	1	1	3	10	1	2	8	12	6	5
Hernia	21	—	—	—	—	1	5	5	10	—	—	—	—	1	10	29	55
Intestinal obstruction	28	—	1	4	3	3	5	4	8	—	3	5	4	4	10	23	44
Cirrhosis of liver	30	—	—	—	—	8	15	4	3	—	—	—	—	11	30	23	16
Other dis. of digestive system	109	—	—	5	6	18	21	19	40	—	—	6	7	25	43	110	219
Acute nephritis	19	1	2	5	3	4	2	1	1	3	5	6	4	6	4	6	5
Chronic nephritis	188	1	4	7	15	18	53	28	62	3	10	9	19	25	108	162	340
Diseases of the prostate	72	—	—	—	—	4	10	11	47	—	—	—	—	6	20	63	257
Other genito-urinary diseases	48	—	1	—	1	2	12	8	24	—	3	—	1	3	24	46	131
Old age	521	—	—	—	—	—	6	28	487	—	—	—	—	—	12	162	2667
Suicide	84	—	2	6	17	19	20	10	10	—	5	8	21	26	41	58	55
Accident	171	11	9	13	25	19	30	19	45	30	23	17	31	26	61	110	246
Other causes	230	6	9	20	21	34	59	27	54	—	—	—	—	—	—	—	—
All causes	6,479	75	130	282	453	743	1,316	916	2,564	204	335	365	563	1022	2672	5285	14043
Years of life (Census population × 3)	390,765	36,714	38,772	77,277	80,445	72,717	49,251	17,331	18,258								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	83	95	91	88	88	104	106	103								

All Causes—ages 20–65 years.	
Comparative Mortality Figure (Standardized Death-rate)	951
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	95

OCCUPATIONAL GROUP 32.—MACHINE TOOL WORKERS AND METAL SPINNERS (200, 247)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	122	5	7	20	16	26	18	14	16	7	9	18	20	46	66	193	341
Respiratory tuberculosis	657	57	125	170	160	94	39	7	5	77	156	153	196	166	142	97	106
Other tuberculosis	56	15	15	7	13	3	1	1	1	20	19	6	16	5	4	14	21
Syphilis, etc.	59	—	—	1	18	19	18	2	1	—	—	1	22	33	66	28	21
Syphilis	7	—	—	—	3	3	1	—	—	—	—	—	4	5	4	—	—
Tabes dorsalis	16	—	—	—	4	4	7	—	1	—	—	—	5	7	26	—	21
General paralysis of insane	23	—	—	1	10	8	4	—	—	—	—	1	12	14	15	—	—
Aneurysm	13	—	—	—	1	4	6	2	—	—	—	—	1	7	22	28	—
Cancer, all sites	426	—	4	14	26	98	150	54	80	—	5	13	32	173	547	745	1704
Skin	13	—	—	—	—	4	3	1	5	—	—	—	—	7	11	14	106
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	25	—	—	—	1	5	12	6	1	—	—	—	1	9	44	83	21
Œsophagus	23	—	—	—	2	4	7	5	5	—	—	—	2	7	26	69	106
Stomach	84	—	—	2	6	29	31	13	3	—	—	2	7	51	113	179	64
Other sites	281	—	4	12	17	56	97	29	66	—	5	11	21	99	354	400	1406
Chronic rheumatism, etc., Gout	14	—	—	—	1	2	6	2	3	—	—	—	1	4	22	28	64
Diabetes	36	1	3	7	6	3	7	2	7	1	4	6	7	5	26	28	149
Alcoholism	2	—	—	—	—	2	—	—	—	—	—	—	—	4	—	—	—
Cerebral hæmorrhage, etc.	223	—	—	3	10	29	70	41	70	—	—	3	12	51	255	566	1491
Other dis. of the nervous system	122	7	7	20	18	19	24	9	18	9	9	18	22	33	88	124	383
Valvular disease of heart	217	5	6	24	32	35	57	24	34	7	7	22	39	62	208	331	724
Other heart disease	234	3	4	14	14	43	56	41	59	4	5	13	17	76	204	566	1257
Arterio-sclerosis	134	—	—	1	2	9	31	25	66	—	—	1	2	16	113	345	1406
Other dis. of circulatory system	9	—	—	1	3	2	1	—	2	—	—	1	4	4	4	—	43
Bronchitis	254	1	3	6	23	29	53	48	91	1	4	5	28	51	193	663	1938
Pneumonia	283	13	23	55	47	58	38	22	27	18	29	49	58	102	139	304	575
Chronic interstitial pneumonia	4	—	—	2	—	—	2	—	—	—	—	2	—	—	7	—	—
Other dis. of respiratory system	58	2	—	4	10	14	11	5	12	3	—	4	12	25	40	69	256
Ulcer of stomach	29	1	2	3	6	8	4	4	1	1	2	3	7	14	15	55	21
Ulcer of duodenum	15	—	1	2	2	6	3	1	—	—	1	2	2	11	11	14	—
Appendicitis	37	10	6	5	3	8	5	—	—	13	7	4	4	14	18	—	—
Hernia	13	1	—	1	2	2	4	—	3	1	—	1	2	4	15	—	64
Intestinal obstruction	15	2	2	—	3	2	4	—	2	3	2	—	4	4	15	—	43
Cirrhosis of liver	13	—	—	1	1	2	4	2	3	—	—	1	1	4	15	28	64
Other dis. of digestive system	48	3	3	5	10	11	9	1	6	4	4	4	12	19	33	14	128
Acute nephritis	13	—	3	1	1	2	2	2	2	—	4	1	1	4	7	28	43
Chronic nephritis	115	1	1	18	14	18	29	13	21	1	1	16	17	32	106	179	447
Diseases of the prostate	35	—	—	—	1	—	9	10	15	—	—	—	1	—	33	138	319
Other genito-urinary diseases	33	—	—	1	2	7	8	5	10	—	—	1	2	12	29	69	213
Old age	136	—	—	—	—	—	3	10	123	—	—	—	—	—	11	138	2620
Suicide	58	2	1	2	14	11	21	5	2	3	1	2	17	19	77	69	43
Accident	83	8	14	11	17	14	7	8	4	11	17	10	21	25	26	110	85
Other causes	146	11	15	19	24	31	21	12	13	—	—	—	—	—	—	—	—
All causes	3,699	148	245	418	499	607	715	370	697	199	305	376	611	1069	2608	5107	14846
Years of life (Census population × 3)	443,499	74,271	80,250	111,132	81,711	56,784	27,411	7,245	4,695								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	81	87	94	96	92	101	102	109								

All Causes—ages 20–65 years.	
Comparative Mortality Figure (Standardized Death-rate)	964
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	95

OCCUPATIONAL GROUP 33.—FITTERS, TOOL SETTERS, MILLWRIGHTS AND SIMILAR OCCUPATIONS (210-212, 229, 244, 245, 248, 265).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and np.
Influenza	309	23	35	40	55	36	46	23	51	10	16	13	27	27	66	112	250
Respiratory tuberculosis ..	1,510	125	325	435	308	197	80	22	18	54	150	143	150	147	114	107	88
Other tuberculosis	143	30	38	23	28	15	3	3	3	13	18	8	14	11	4	15	15
Syphilis, etc.	228	—	4	23	63	74	43	14	7	—	2	8	31	55	61	68	34
Syphilis	20	—	1	5	5	7	—	2	—	—	0	2	2	5	—	10	—
Tabes dorsalis	50	—	—	1	12	12	15	6	4	—	—	0	6	9	21	29	20
General paralysis of insane ..	119	—	3	16	41	38	18	3	—	—	1	5	20	28	26	15	—
Aneurysm	39	—	—	1	5	17	10	3	3	—	—	0	2	13	14	15	15
Cancer, all sites	1,153	9	16	32	94	197	329	207	269	4	7	11	46	147	470	1008	1317
Skin	33	—	1	2	4	1	9	5	11	—	0	1	2	1	13	24	54
Lip	7	—	—	—	—	2	2	—	3	—	—	—	—	1	3	—	15
Tongue	44	—	—	—	3	9	16	7	9	—	—	—	1	7	23	34	44
Œsophagus	73	—	—	—	2	14	32	10	15	—	—	—	1	10	46	49	73
Stomach	243	—	—	5	30	49	55	45	59	—	—	2	15	37	79	219	289
Other sites	753	9	15	25	55	122	215	140	172	4	7	8	27	91	307	682	842
Chronic rheumatism, etc., Gout	38	—	1	—	3	10	9	3	12	—	0	—	1	7	13	15	59
Diabetes	116	7	12	13	13	20	17	21	13	3	6	4	6	15	24	102	64
Alcoholism	4	—	—	—	3	1	—	—	—	—	—	—	1	1	—	—	—
Cerebral hæmorrhage, etc. ..	691	1	1	9	27	63	171	113	306	0	0	3	13	47	244	550	1498
Other dis. of the nervous system	309	26	21	47	49	36	54	19	57	11	10	15	24	27	77	93	279
Valvular disease of heart ..	609	13	25	47	77	91	141	76	139	6	12	15	38	68	201	370	680
Other heart disease	717	7	22	44	50	73	144	112	265	3	10	14	24	55	206	545	1297
Arterio-sclerosis	408	—	—	2	4	18	86	87	211	—	—	1	2	13	123	424	1033
Other dis. of circulatory system	35	—	1	3	4	5	8	3	11	—	0	1	2	4	11	15	54
Bronchitis..	587	3	7	12	23	51	94	71	326	1	3	4	11	38	134	346	1596
Pneumonia	654	41	49	114	129	104	91	49	77	18	23	38	63	78	130	239	377
Chronic interstitial pneumonia ..	9	—	—	1	3	1	3	—	1	—	—	0	1	1	4	—	5
Other dis. of respiratory system	131	3	9	9	22	20	31	8	29	1	4	3	11	15	44	39	142
Ulcer of stomach	64	1	2	7	18	14	12	6	4	0	1	2	9	10	17	29	20
Ulcer of duodenum	53	2	2	7	12	16	6	4	4	1	1	2	6	12	9	19	20
Appendicitis	100	28	15	14	16	9	7	6	5	12	7	5	8	7	10	29	24
Hernia	49	2	5	—	3	11	10	4	14	1	2	—	1	8	14	19	69
Intestinal obstruction	52	5	7	7	10	8	1	4	10	2	3	2	5	6	1	19	49
Cirrhosis of liver	62	—	—	—	8	15	20	11	8	—	—	—	4	11	29	54	39
Other dis. of digestive system ..	181	7	8	12	21	27	40	20	46	3	4	4	10	20	57	97	225
Acute nephritis	42	2	3	2	8	7	8	5	7	1	1	1	4	5	11	24	34
Chronic nephritis..	312	8	10	26	26	64	70	49	59	3	5	9	13	48	100	239	289
Diseases of the prostate ..	102	—	—	1	—	1	19	19	62	—	—	0	—	1	27	93	303
Other genito-urinary diseases ..	78	1	6	3	13	12	10	13	20	0	3	1	6	9	14	63	98
Old age	457	—	—	—	—	—	8	22	427	—	—	—	—	—	11	107	2090
Suicide	157	12	9	19	30	38	33	5	11	5	4	6	15	28	47	24	54
Accident	505	72	74	102	70	75	48	19	45	31	34	34	34	56	69	93	220
Other causes	399	40	31	63	56	63	72	27	47	—	—	—	—	—	—	—	—
All causes..	10,264	468	738	1,117	1,246	1,372	1,714	1,045	2,564	204	340	368	609	1026	2447	5089	12550
Years of life (Census population × 3)	1,200,018	229,941	216,963	303,609	204,744	133,755	70,041	20,535	20,430								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	83	97	92	95	89	95	102	92								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 932
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 93

OCCUPATIONAL GROUP 34.—BOILER MAKERS AND PLATERS, AND THEIR LABOURERS (222, 223).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	57	2	1	9	10	13	9	3	10	8	3	20	27	46	52	66	224
Respiratory tuberculosis ..	254	22	40	70	48	44	21	3	6	84	139	158	130	155	122	66	134
Other tuberculosis	20	4	4	3	2	5	—	1	1	15	14	7	5	18	—	22	22
Syphilis, etc.	41	—	—	3	11	8	16	2	1	—	—	7	30	28	93	44	22
Syphilis	5	—	—	1	2	2	—	—	—	—	—	2	5	7	—	—	—
Tabes dorsalis	8	—	—	—	1	—	5	1	1	—	—	—	3	—	29	22	22
General paralysis of insane ..	20	—	—	2	7	5	6	—	—	—	—	5	19	18	35	—	—
Aneurysm	8	—	—	—	1	1	5	1	—	—	—	—	3	4	29	22	—
Cancer, all sites	247	—	2	4	7	45	86	43	60	—	7	9	19	158	501	942	1344
Skin	7	—	—	1	—	1	1	1	3	—	—	2	—	4	6	22	67
Lip	4	—	—	—	—	—	1	—	3	—	—	—	—	—	6	—	67
Tongue	19	—	—	—	—	3	10	1	5	—	—	—	—	11	58	22	112
Œsophagus	22	—	—	—	—	3	13	3	3	—	—	—	—	11	76	66	67
Stomach	53	—	—	—	2	12	16	10	13	—	—	—	5	42	93	219	291
Other sites	142	—	2	3	5	26	45	28	33	—	7	7	14	91	262	614	739
Chronic rheumatism, etc., Gout	5	—	—	—	—	—	2	—	3	—	—	—	—	—	12	—	67
Diabetes	17	—	1	—	1	4	8	3	—	—	3	—	3	14	47	66	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	153	—	1	—	3	17	38	27	67	—	3	—	8	60	222	592	1501
Other dis. of the nervous system	47	2	4	10	7	6	11	2	5	8	14	23	19	21	64	44	112
Valvular disease of heart ..	136	3	1	5	13	30	35	17	32	11	3	11	35	105	204	372	717
Other heart disease	147	—	1	7	6	17	36	25	55	—	3	16	16	60	210	548	1232
Arterio-sclerosis	89	—	—	1	2	4	21	18	43	—	—	2	5	14	122	394	963
Other dis. of circulatory system	4	—	1	—	—	—	1	1	1	—	3	—	—	—	6	22	22
Bronchitis..	188	—	1	1	9	19	29	25	104	—	3	2	24	67	169	548	2330
Pneumonia	156	8	14	18	27	23	36	17	13	31	49	41	73	81	210	372	291
Chronic interstitial pneumonia ..	1	—	—	—	—	1	—	—	—	—	—	—	—	4	—	—	—
Other dis. of respiratory system	35	—	2	3	5	4	6	4	11	—	7	7	14	14	35	88	246
Ulcer of stomach	20	—	2	2	4	4	6	1	1	—	7	5	11	14	35	22	22
Ulcer of duodenum	7	—	—	1	2	4	—	—	—	—	—	2	5	14	—	—	—
Appendicitis	19	3	5	4	2	2	2	1	—	11	17	9	5	7	12	22	—
Hernia	5	—	—	—	1	1	3	—	—	—	—	—	3	4	17	—	—
Intestinal obstruction	11	1	1	1	—	1	4	—	3	4	3	2	—	4	23	—	67
Cirrhosis of liver	10	—	—	—	1	3	3	1	2	—	—	—	3	11	17	22	45
Other dis. of digestive system ..	41	1	1	2	6	6	12	4	9	4	3	5	16	21	70	88	202
Acute nephritis	10	1	1	—	1	3	3	1	—	4	3	—	3	11	17	22	—
Chronic nephritis..	66	—	—	2	7	8	21	6	22	—	—	5	19	28	122	131	493
Diseases of the prostate ..	26	—	—	—	—	—	3	11	12	—	—	—	—	—	17	241	269
Other genito-urinary diseases ..	18	1	—	1	3	2	3	1	7	4	—	2	8	7	17	22	157
Old age	116	—	—	—	—	—	3	4	109	—	—	—	—	—	17	88	2442
Suicide	37	—	1	3	8	12	8	4	1	—	3	7	22	42	47	88	22
Accident	87	7	6	14	11	17	12	2	18	27	21	32	30	60	70	44	403
Other causes	73	2	8	5	7	15	12	12	12	—	—	—	—	—	—	—	—
All causes..	2,143	57	98	169	204	318	450	239	608	218	340	381	553	1117	2624	5238	13620
Years of life (Census population × 3)	190,875	26,112	28,860	44,376	36,891	28,458	17,151	4,563	4,464								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	88	97	95	87	97	102	105	100								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 968
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 96

OCCUPATIONAL GROUP 35.—BRASS FINISHERS AND TURNERS (224).

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

Cause of Death	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	21	—	2	2	3	3	6	2	3	—	37	23	40	50	153	168	323
Respiratory tuberculosis	107	9	17	15	32	22	10	—	2	132	313	172	428	364	255	—	215
Other tuberculosis	5	—	—	3	—	1	1	—	—	—	—	34	—	17	26	—	—
Syphilis, etc.	11	—	—	1	2	3	5	—	—	—	—	11	27	50	128	—	—
Syphilis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	26	—	—
Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	26	—	—
General paralysis of insane	6	—	—	1	2	2	1	—	—	—	—	11	27	33	26	—	—
Aneurysm	3	—	—	—	—	1	2	—	—	—	—	—	—	17	51	—	—
Cancer, all sites	79	—	—	2	7	20	20	14	16	—	—	23	94	331	510	1175	1720
Skin	1	—	—	—	—	—	1	—	—	—	—	—	—	—	26	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	6	—	—	—	—	1	—	2	3	—	—	—	—	17	—	168	323
Œsophagus	7	—	—	—	—	1	2	2	2	—	—	—	—	17	51	168	215
Stomach	19	—	—	—	2	9	3	3	2	—	—	—	27	149	77	252	215
Other sites	46	—	—	2	5	9	14	7	9	—	—	23	67	149	357	588	968
Chronic rheumatism, etc., Gout	4	—	—	—	—	1	1	—	2	—	—	—	—	17	26	—	215
Diabetes	3	—	—	—	—	2	—	—	1	—	—	—	—	33	—	—	108
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	51	—	—	—	2	5	6	14	24	—	—	—	27	83	153	1175	2581
Other dis. of the nervous system	14	—	—	2	1	2	3	1	5	—	—	23	13	33	77	84	538
Valvular disease of heart	29	1	4	1	4	3	5	3	8	15	74	11	54	50	128	252	860
Other heart disease	34	—	—	—	4	1	7	8	14	—	—	—	54	17	179	672	1505
Arterio-sclerosis	23	—	—	—	—	1	5	1	16	—	—	—	—	17	128	84	1720
Other dis. of circulatory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	108
Bronchitis	56	—	—	1	2	7	13	5	28	—	—	11	27	116	332	420	3011
Pneumonia	44	2	2	7	7	9	11	—	6	29	37	80	94	149	281	—	645
Chronic interstitial pneumonia	2	—	—	—	—	—	2	—	—	—	—	—	—	—	51	—	—
Other dis. of respiratory system	7	—	—	—	2	—	1	1	3	—	—	—	27	—	26	84	323
Ulcer of stomach	8	—	—	—	4	1	2	—	1	—	—	—	54	17	51	—	108
Ulcer of duodenum	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	108
Appendicitis	3	—	—	2	1	—	—	—	—	—	—	23	13	—	—	—	—
Hernia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	84	—
Intestinal obstruction	4	—	—	—	—	1	—	1	2	—	—	—	—	17	—	84	215
Cirrhosis of liver	5	—	—	—	1	2	1	1	—	—	—	—	13	33	26	84	—
Other dis. of digestive system	7	—	—	—	1	1	1	2	2	—	—	—	13	17	26	168	215
Acute nephritis	3	—	1	—	1	—	—	—	1	—	18	—	13	—	—	—	108
Chronic nephritis	18	—	—	1	—	4	5	5	3	—	—	11	—	66	128	420	323
Diseases of the prostate	8	—	—	—	—	1	—	1	6	—	—	—	—	17	—	84	645
Other genito-urinary diseases	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	215
Old age	20	—	—	—	—	—	—	1	19	—	—	—	—	—	—	84	2043
Suicide	5	—	—	—	—	1	2	1	1	—	—	—	—	17	51	84	108
Accident	10	1	—	—	2	3	1	2	1	15	—	—	27	50	26	168	108
Other causes	21	2	—	—	4	5	2	3	5	—	—	—	—	—	—	—	—
All causes	607	15	26	37	80	99	110	67	173	220	479	425	1070	1638	2805	5626	18602
Years of life (Census population × 3)	40,533	6,828	5,430	8,712	7,476	6,045	3,921	1,191	930								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	89	136	107	167	142	109	113	137								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,293

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 129

OCCUPATIONAL GROUP 36.—COPPERSMITHS (227).

Cause of Death	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	10	—	1	1	—	2	2	2	2	—	41	28	—	91	149	473	483
Respiratory tuberculosis	33	—	6	11	8	4	4	—	—	—	248	305	291	181	298	—	—
Other tuberculosis	2	1	1	—	—	—	—	—	—	42	41	—	—	—	—	—	—
Syphilis, etc.	3	—	—	—	2	—	—	1	—	—	—	—	73	—	—	236	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	236	—
General paralysis of insane	2	—	—	—	2	—	—	—	—	—	—	—	73	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	21	—	—	—	1	3	6	3	8	—	—	—	36	136	446	709	1932
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	2	—	—	—	—	—	2	—	—	—	—	—	—	—	149	—	—
Stomach	5	—	—	—	—	—	1	—	4	—	—	—	—	—	74	—	966
Other sites	14	—	—	—	1	3	3	3	4	—	—	—	36	136	223	709	966
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	22	—	—	—	1	6	4	3	8	—	—	—	36	272	298	709	1932
Other dis. of the nervous system	1	—	1	—	—	—	—	—	—	—	41	—	—	—	—	—	—
Valvular disease of heart	8	—	1	—	1	—	4	—	2	—	41	—	36	—	298	—	483
Other heart disease	12	—	—	1	—	1	—	3	7	—	—	28	—	45	—	709	1691
Arterio-sclerosis	5	—	—	—	—	—	1	2	2	—	—	—	—	—	74	473	483
Other dis. of circulatory system	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	483
Bronchitis	8	—	—	—	—	—	1	1	6	—	—	—	—	—	74	236	1449
Pneumonia	15	—	1	—	2	2	3	4	3	—	41	—	73	91	223	946	725
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	4	—	—	2	—	1	1	—	—	—	—	28	—	45	74	—	—
Ulcer of stomach	2	—	1	—	—	1	—	—	—	—	41	—	—	45	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	2	1	—	—	—	—	1	—	—	42	—	—	—	—	74	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	1	—	—	—	—	—	1	—	—	—	—	—	—	—	74	—	—
Other dis. of digestive system	5	—	—	—	2	1	—	—	2	—	—	—	73	45	—	—	483
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	17	—	1	—	—	3	5	2	6	—	41	—	—	136	372	473	1449
Diseases of the prostate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other genito-urinary diseases	2	—	—	—	—	—	1	1	—	—	—	—	—	—	74	236	—
Old age	14	—	—	—	—	—	—	—	14	—	—	—	—	—	—	—	3382
Suicide	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	473	—
Accident	4	1	—	1	1	1	—	—	—	42	—	28	36	45	—	—	—
Other causes	8	—	—	4	—	1	1	1	1	—	—	—	—	—	—	—	—
All causes	203	3	13	20	18	26	35	25	63	127	538	555	655	1178	2604	5910	15217
Years of life (Census population × 3)	15,510	2,355	2,415	3,603	2,748	2,208	1,344	423	414								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	51	153	139	103	102	101	118	112								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,087

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 110

OCCUPATIONAL GROUP 37.—CUTLERS (228).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 38.—FILE CUTTERS (232).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
5	—	—	—	1	1	—	—	3	—	—	—	54	41	—	—	420	Influenza	5	—	—	1	1	—	1	—	2	—	—	106	96	—	127	—	749
37	2	1	4	9	8	10	2	1	155	93	201	487	329	575	270	140	Respiratory tuberculosis	19	—	—	3	7	2	4	2	1	—	—	319	672	209	507	784	375
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Other tuberculosis	1	—	1	—	—	—	—	—	—	—	182	—	—	—	—	—	—
2	—	—	—	—	1	1	—	—	—	—	—	—	41	57	—	—	Syphilis, etc.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1	—	—	—	—	1	—	—	—	—	—	—	—	41	—	—	—	Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1	—	—	—	—	—	1	—	—	—	—	—	—	—	57	—	—	Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31	—	—	—	1	9	5	7	9	—	—	—	54	370	287	945	1261	Cancer, all sites	18	—	—	—	1	2	4	4	7	—	—	—	96	209	507	1569	2622
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	140	Skin	1	—	—	—	—	—	1	—	—	—	—	—	—	—	127	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	1	—	1	—	—	—	—	—	57	—	140	Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	—	—	—	—	3	—	1	1	—	—	—	—	123	—	135	140	Œsophagus	2	—	—	—	—	—	1	1	—	—	—	—	—	—	127	392	—
6	—	—	—	—	1	1	2	2	—	—	—	—	41	57	270	280	Stomach	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	392	375
17	—	—	—	1	5	3	4	4	—	—	—	54	206	172	540	560	Other sites	13	—	—	—	1	2	2	2	6	—	—	—	96	209	253	784	2247
2	—	—	—	—	1	1	—	—	—	—	—	—	41	57	—	—	Chronic rheumatism, etc., Gout	1	—	—	—	—	—	1	—	—	—	—	—	—	—	127	—	—
1	—	—	—	—	—	1	—	—	—	—	—	—	—	57	—	—	Diabetes	1	—	—	—	1	—	—	—	—	—	—	—	96	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26	—	—	—	—	1	4	9	12	—	—	—	—	41	230	1215	1681	Cerebral hæmorrhage, etc.	12	—	—	—	—	1	5	1	5	—	—	—	—	104	634	392	1873
3	—	—	—	—	—	—	2	1	—	—	—	—	—	—	270	140	Other dis. of the nervous system	3	—	—	—	—	1	2	—	—	—	—	—	—	104	253	—	—
16	—	—	—	2	4	3	5	2	—	—	—	108	164	172	675	280	Valvular disease of heart	6	—	—	—	—	4	1	1	—	—	—	—	—	418	127	392	—
21	—	—	2	—	—	5	3	11	—	—	101	—	—	287	405	1541	Other heart disease	12	—	1	—	—	1	—	3	7	—	182	—	—	104	—	1176	2622
25	—	—	—	—	2	3	2	18	—	—	—	—	82	172	270	2521	Arterio-sclerosis	13	—	—	—	—	—	2	6	5	—	—	—	—	—	253	2353	1873
1	—	—	—	—	1	—	—	—	—	—	—	—	41	—	—	—	Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23	—	—	—	—	1	4	4	14	—	—	—	—	41	230	540	1961	Bronchitis	23	—	—	—	—	2	6	4	11	—	—	—	—	209	760	1569	4120
20	—	—	1	5	1	4	3	6	—	—	50	271	41	230	405	840	Pneumonia	7	—	—	—	1	1	2	1	2	—	—	—	96	104	253	392	749
1	—	1	—	—	—	—	—	—	—	93	—	—	—	—	—	—	Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	—	—	1	—	1	1	1	—	—	—	50	—	41	57	135	—	Other dis. of respiratory system	2	—	—	1	—	1	—	—	—	—	—	106	—	104	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Ulcer of stomach	2	—	—	—	—	—	1	1	—	—	—	—	—	—	127	392	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Appendicitis	1	—	—	—	—	1	—	—	—	—	—	—	—	104	—	—	—
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	135	—	Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	280	Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	135	—	Cirrhosis of liver	1	—	—	—	—	—	1	—	—	—	—	—	—	—	127	—	—
3	—	—	—	—	1	—	2	—	—	—	—	—	41	—	270	—	Other dis. of digestive system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Acute nephritis	3	—	—	2	—	—	1	—	—	—	—	213	—	—	127	—	—
5	—	—	—	—	1	2	1	1	—	—	—	—	41	115	135	140	Chronic nephritis	13	—	—	—	3	4	2	1	3	—	—	—	288	418	253	392	1124
6	—	—	—	—	—	1	—	5	—	—	—	—	—	57	—	700	Diseases of the prostate	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	392	375
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	140	Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	—	—	—	—	—	—	2	9	—	—	—	—	—	—	270	1261	Old age	3	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	1124
4	—	—	—	—	2	1	1	—	—	—	—	—	82	57	135	—	Suicide	2	—	—	—	—	1	—	1	—	—	—	—	—	104	—	392	—
7	—	1	—	1	1	4	—	—	—	93	—	54	41	230	—	—	Accident	1	—	—	—	—	—	1	—	—	—	—	—	—	—	127	—	—
9	—	1	—	1	3	1	1	2	—	—	—	—	—	—	—	—	Other causes	3	—	—	—	2	—	—	—	1	—	—	—	—	—	—	—	—
268	2	4	8	20	39	51	47	97	155	373	402	1082	1603	2931	6343	13585	All causes	154	—	2	7	16	21	34	26	48	—	364	745	1537	2194	4309	10196	17978
11,829	1,293	1,071	1,989	1,848	2,433	1,740	741	714									Years of life (Census population × 3)	5,376	579	549	939	1,041	957	789	255	267								
—	63	106	101	169	139	114	127	100									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	103	187	241	190	168	204	132								

Group 37.—Cutlers:

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,284
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	126

Group 38.—File Cutters:

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,851
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	182

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

OCCUPATIONAL GROUP 39.—GAS FITTERS AND PIPE FITTERS (235, 251).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	24	1	—	1	7	5	4	2	4	30	—	7	53	54	84	151	360
Respiratory tuberculosis	65	2	11	14	17	9	12	—	—	59	208	99	129	96	253	—	—
Other tuberculosis	6	1	2	1	2	—	—	—	—	30	38	7	15	—	—	—	—
Syphilis, etc.	10	—	—	—	3	5	—	1	1	—	—	—	23	54	—	75	90
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	1	—	—	—	—	—	—	—	11	—	—	—
General paralysis of insane	6	—	—	—	3	2	—	1	—	—	—	—	23	21	—	75	—
Aneurysm	3	—	—	—	—	2	—	—	1	—	—	—	—	21	—	—	90
Cancer, all sites	103	—	2	2	9	19	28	18	25	—	38	14	68	203	590	1357	2252
Skin	5	—	—	—	—	—	2	2	1	—	—	—	—	—	42	151	90
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	5	—	—	—	—	1	1	—	3	—	—	—	—	11	21	—	270
Œsophagus	10	—	—	—	1	1	4	2	2	—	—	—	8	11	84	151	180
Stomach	19	—	—	—	4	5	5	2	3	—	—	—	30	54	105	151	270
Other sites	64	—	2	2	4	12	16	12	16	—	38	14	30	128	337	905	1441
Chronic rheumatism, etc., Gout	5	—	—	—	1	2	1	—	1	—	—	—	8	21	21	—	90
Diabetes	4	—	—	1	—	—	2	—	1	—	—	7	—	—	42	—	90
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	41	—	1	—	—	3	16	8	13	—	19	—	—	32	337	603	1171
Other dis. of the nervous system	11	—	3	3	1	1	1	—	2	—	57	21	8	11	21	—	180
Valvular disease of heart	34	1	—	3	5	1	4	4	16	30	—	21	38	11	84	302	1441
Other heart disease	31	—	—	—	5	2	9	1	14	—	—	—	38	21	190	75	1261
Arterio-sclerosis	32	—	—	—	1	1	4	8	18	—	—	—	8	11	84	603	1622
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	41	—	—	—	2	3	10	6	20	—	—	—	15	32	211	452	1802
Pneumonia	43	—	2	6	9	13	9	1	3	—	38	42	68	139	190	75	270
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	8	—	—	—	1	1	3	1	2	—	—	—	8	11	63	75	180
Ulcer of stomach	8	—	—	1	2	2	2	—	1	—	—	7	15	21	42	—	90
Ulcer of duodenum	3	—	1	1	—	—	1	—	—	—	19	7	—	—	21	—	—
Appendicitis	5	—	2	2	—	—	—	—	1	—	38	14	—	—	—	—	90
Hernia	2	—	—	—	—	—	1	—	1	—	—	—	—	—	21	—	90
Intestinal obstruction	2	—	—	1	—	—	—	1	—	—	—	7	—	—	—	75	—
Cirrhosis of liver	3	—	—	—	—	2	1	—	—	—	—	—	—	21	21	—	—
Other dis. of digestive system	3	—	—	—	1	1	1	—	—	—	—	—	8	11	21	—	—
Acute nephritis	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	90
Chronic nephritis	20	—	—	—	1	3	6	2	8	—	—	—	8	32	126	151	721
Diseases of the prostate	7	—	—	—	—	—	1	—	6	—	—	—	—	—	21	—	541
Other genito-urinary diseases	2	—	—	—	1	—	1	—	—	—	—	—	8	—	21	—	—
Old age	21	—	—	—	—	—	1	1	19	—	—	—	—	—	21	75	1712
Suicide	13	—	2	5	1	2	2	1	—	—	38	35	8	21	42	75	—
Accident	24	2	—	4	7	6	3	1	1	59	—	28	53	64	63	75	90
Other causes	31	1	1	6	5	6	6	1	5	—	—	—	—	—	—	—	—
All causes	603	8	27	51	81	87	129	57	163	236	510	360	615	932	2718	4299	14685
Years of life (Census population × 3)	52,548	3,384	5,298	14,172	13,173	9,339	4,746	1,326	1,110								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	96	145	90	96	81	106	86	108								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	975
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	96

OCCUPATIONAL GROUP 40.—METAL GRINDERS (237).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	23	—	1	3	6	5	4	3	1	—	15	23	55	70	128	457	192
Respiratory tuberculosis	231	3	9	31	60	82	39	5	2	61	136	237	551	1149	1246	761	383
Other tuberculosis	13	2	2	2	1	4	2	—	—	40	30	15	9	56	64	—	—
Syphilis, etc.	13	—	—	2	1	5	2	3	—	—	—	15	9	70	64	457	—
Syphilis	2	—	—	1	—	1	—	—	—	—	—	8	—	14	—	—	—
Tabes dorsalis	4	—	—	—	—	2	1	1	—	—	—	—	—	28	32	152	—
General paralysis of insane	6	—	—	1	1	1	1	2	—	—	—	8	9	14	32	304	—
Aneurysm	1	—	—	—	—	1	—	—	—	—	—	—	—	14	—	—	—
Cancer, all sites	61	—	—	—	4	19	25	8	5	—	—	—	37	266	799	1218	958
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	5	—	—	—	1	—	4	—	—	—	—	—	9	—	128	—	—
Œsophagus	5	—	—	—	—	3	2	—	—	—	—	—	—	42	64	—	—
Stomach	16	—	—	—	1	7	4	3	1	—	—	—	9	98	128	457	192
Other sites	35	—	—	—	2	9	15	5	4	—	—	—	18	126	479	761	766
Chronic rheumatism, etc., Gout	3	—	—	—	—	1	2	—	—	—	—	—	—	14	64	—	—
Diabetes	5	1	—	—	—	—	4	—	—	20	—	—	—	—	128	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	26	—	—	—	—	6	10	7	3	—	—	—	—	84	320	1065	575
Other dis. of the nervous system	17	—	2	4	4	4	2	—	1	—	30	31	37	56	64	—	192
Valvular disease of heart	32	1	2	4	4	3	7	5	6	20	30	31	37	42	224	761	1150
Other heart disease	46	—	—	1	7	15	10	2	11	—	—	8	64	210	320	304	2107
Arterio-sclerosis	16	—	—	—	—	1	5	3	7	—	—	—	—	14	160	457	1341
Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	32	—	—
Bronchitis	71	2	1	—	4	16	19	14	15	40	15	—	37	224	607	2131	2874
Pneumonia	62	4	3	7	11	19	10	3	5	81	45	54	101	266	320	457	958
Chronic interstitial pneumonia	12	—	—	—	3	2	4	2	1	—	—	—	28	28	128	304	192
Other dis. of respiratory system	8	—	1	1	2	1	2	—	1	—	15	8	18	14	64	—	192
Ulcer of stomach	4	—	—	1	1	2	—	—	—	—	—	8	9	28	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	6	1	1	—	2	—	1	1	—	20	15	—	18	—	32	152	—
Hernia	3	—	—	—	1	—	2	—	—	—	—	—	9	—	64	—	—
Intestinal obstruction	1	—	—	1	—	—	—	—	—	—	—	8	—	—	—	—	—
Cirrhosis of liver	5	—	—	—	2	—	1	2	—	—	—	—	18	—	32	304	—
Other dis. of digestive system	10	—	—	1	4	—	1	3	1	—	—	8	37	—	32	457	192
Acute nephritis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	32	—	—
Chronic nephritis	13	—	—	—	1	7	2	3	—	—	—	—	9	98	64	457	—
Diseases of the prostate	3	—	—	—	—	—	1	1	1	—	—	—	—	—	32	152	192
Other genito-urinary diseases	5	—	—	1	—	—	3	—	1	—	—	8	—	—	96	—	192
Old age	18	—	—	—	—	—	1	1	16	—	—	—	—	—	32	152	3065
Suicide	9	—	—	1	3	2	3	—	—	—	—	8	28	28	96	—	—
Accident	18	—	—	8	2	2	2	1	3	—	—	61	18	28	64	152	575
Other causes	12	1	2	1	2	3	1	2	—	—	—	—	—	—	—	—	—
All causes	748	15	24	69	125	199	167	69	80	303	362	528	1148	2789	5337	10502	15326
Years of life (Census population × 3)	46,965	4,944	6,636	13,056	10,887	7,134	3,129	657	522								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	123	103	132	180	241	208	210	113								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,977
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	190

OCCUPATIONAL GROUP 40a.—GRINDERS IN THE CUTLERY TRADE (Occ. 237. Ind. 210).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	9	—	—	2	3	1	1	1	1	—	—	99	172	61	115	417	546
Respiratory tuberculosis	85	—	1	7	22	36	18	1	—	—	93	346	1262	2206	2076	417	—
Other tuberculosis	8	—	2	1	—	3	2	—	—	—	185	49	—	184	231	—	—
Syphilis, etc.	4	—	—	1	—	1	1	1	—	—	—	49	—	61	115	417	—
Syphilis	1	—	—	1	—	—	—	—	—	—	—	49	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	1	—	—	—	—	—	—	—	61	—	—	—
General paralysis of insane	2	—	—	—	—	—	1	1	—	—	—	—	—	—	115	417	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	19	—	—	—	—	4	11	2	2	—	—	—	—	245	1269	833	1093
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	—	2	—	—	—	—	—	—	—	231	—	—
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	5	—	—	—	—	1	2	1	1	—	—	—	—	61	231	417	546
Other sites	12	—	—	—	—	3	7	1	1	—	—	—	—	184	807	417	546
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	2	—	—	—	—	—	—	—	231	—	—
Diabetes	2	1	—	—	—	—	1	—	—	78	—	—	—	—	115	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	10	—	—	—	—	2	4	1	3	—	—	—	—	123	461	417	1639
Other dis. of the nervous system	5	—	—	1	1	2	1	—	—	—	—	49	57	123	115	—	—
Valvular disease of heart	13	—	2	1	1	—	3	3	3	—	185	49	57	—	346	1250	1639
Other heart disease	17	—	—	—	1	7	4	—	5	—	—	—	57	429	461	—	2732
Arterio-sclerosis	7	—	—	—	—	—	2	—	5	—	—	—	—	—	231	—	2732
Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	115	—	—
Bronchitis	38	—	—	—	2	6	14	7	9	—	—	—	115	368	1615	2917	4918
Pneumonia	21	—	1	2	1	8	2	2	5	—	93	99	57	490	231	833	2732
Chronic interstitial pneumonia	6	—	—	—	2	—	2	1	1	—	—	—	115	—	231	417	546
Other dis. of respiratory system	4	—	1	—	1	—	2	—	—	—	93	—	57	—	231	—	—
Ulcer of stomach	1	—	—	—	—	1	—	—	—	—	—	—	—	61	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	1	1	—	—	—	—	—	—	—	78	—	—	—	—	—	—	—
Hernia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	115	—	—
Intestinal obstruction	1	—	—	1	—	—	—	—	—	—	—	49	—	—	—	—	—
Cirrhosis of liver	2	—	—	—	1	—	—	1	—	—	—	—	57	—	—	417	—
Other dis. of digestive system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	4	—	—	—	—	2	1	1	—	—	—	—	—	123	115	417	—
Diseases of the prostate	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	417	—
Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	10	—	—	—	—	—	—	—	10	—	—	—	—	—	—	—	5464
Suicide	2	—	—	1	1	—	—	—	—	—	—	49	57	—	—	—	—
Accident	6	—	—	1	—	2	—	1	2	—	—	49	—	123	—	417	1093
Other causes	3	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
All causes	283	2	7	18	36	76	74	24	46	157	648	890	2065	4657	8535	10000	25137
Years of life (Census population × 3)	9,042	1,275	1,080	2,022	1,743	1,632	867	240	183								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	64	184	223	323	403	332	200	185								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 3,295

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 330

OCCUPATIONAL GROUP 41.—METAL GLAZERS, POLISHERS, BUFFERS AND MOPPERS (238).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	17	—	—	3	4	5	3	1	1	—	—	39	52	92	152	253	317
Respiratory tuberculosis	90	3	9	18	31	19	7	3	—	68	231	233	404	351	356	758	—
Other tuberculosis	4	1	—	1	1	1	—	—	—	23	—	13	13	18	—	—	—
Syphilis, etc.	7	—	—	2	1	1	2	1	—	—	—	26	13	18	102	253	—
Syphilis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	51	—	—
Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	51	—	—
General paralysis of insane	3	—	—	1	1	1	—	—	—	—	—	13	13	18	—	—	—
Aneurysm	2	—	—	1	—	—	—	1	—	—	—	13	—	—	—	253	—
Cancer, all sites	40	—	—	—	4	11	15	6	4	—	—	—	52	203	762	1515	1270
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	—	1	—	1	—	—	—	—	—	51	—	317
Œsophagus	3	—	—	—	—	—	2	1	—	—	—	—	—	—	102	253	—
Stomach	8	—	—	—	—	1	7	—	—	—	—	—	—	18	356	—	—
Other sites	27	—	—	—	4	10	5	5	3	—	—	—	52	185	254	1263	952
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	3	1	—	—	1	1	—	—	—	23	—	—	13	18	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	21	—	—	1	4	3	4	—	9	—	—	13	52	55	203	—	2857
Other dis. of the nervous system	4	—	2	—	—	—	—	2	—	—	51	—	—	—	—	505	—
Valvular disease of heart	13	—	—	3	2	3	4	—	1	—	—	39	26	55	203	—	317
Other heart disease	29	—	3	—	4	6	8	2	6	—	77	—	52	111	407	505	1905
Arterio-sclerosis	9	—	—	—	—	4	—	3	2	—	—	—	—	74	—	758	635
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	30	—	1	—	2	4	9	5	9	—	26	—	26	74	457	1263	2857
Pneumonia	44	3	3	2	14	15	5	1	1	68	77	26	183	277	254	253	317
Chronic interstitial pneumonia	1	—	—	—	—	1	—	—	—	—	—	—	—	18	—	—	—
Other dis. of respiratory system	2	—	—	—	—	1	1	—	—	—	—	—	—	18	51	—	—
Ulcer of stomach	3	—	—	—	1	—	2	—	—	—	—	—	13	—	102	—	—
Ulcer of duodenum	1	—	—	—	—	1	—	—	—	—	—	—	—	18	—	—	—
Appendicitis	5	1	—	4	—	—	—	—	—	23	—	52	—	—	—	—	—
Hernia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	51	—	—
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	1	—	—	—	—	1	—	—	—	—	—	—	—	18	—	—	—
Other dis. of digestive system	5	—	1	1	1	1	—	1	—	—	26	13	13	18	—	253	—
Acute nephritis	2	—	—	1	1	—	—	—	—	—	—	13	13	—	—	—	—
Chronic nephritis	11	1	1	—	2	4	2	1	—	23	26	—	26	74	102	253	—
Diseases of the prostate	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	253	317
Other genito-urinary diseases	4	—	1	—	—	—	1	1	1	—	26	—	—	—	51	253	317
Old age	7	—	—	—	—	—	1	—	6	—	—	—	—	—	51	—	1905
Suicide	8	—	1	—	3	3	—	—	1	—	26	—	39	55	—	—	317
Accident	7	3	—	—	1	—	1	—	2	68	—	—	13	—	51	—	635
Other causes	17	3	2	3	1	2	6	—	—	—	—	—	—	—	—	—	—
All causes	388	16	24	39	78	87	72	28	44	365	615	505	1017	1608	3659	7071	13968
Years of life (Census population × 3)	31,770	4,389	3,900	7,722	7,668	5,412	1,968	396	315								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	148	175	127	159	139	142	142	103								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,443

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 144

OCCUPATIONAL GROUP 42.—PLUMBERS (252).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	50	4	3	8	7	5	9	5	9	21	20	25	21	21	66	135	294
Respiratory tuberculosis	161	12	16	35	41	38	16	3	—	62	107	108	124	163	118	81	—
Other tuberculosis	24	9	2	4	5	2	2	—	—	47	13	12	15	9	15	—	—
Syphilis, etc.	26	—	—	2	8	8	3	3	2	—	—	6	24	34	22	81	65
Syphilis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	7	—	—
Tabes dorsalis	3	—	—	2	—	—	—	1	—	—	—	6	—	—	—	27	—
General paralysis of insane	13	—	—	—	4	5	1	2	1	—	—	—	12	21	7	54	33
Aneurysm	9	—	—	—	4	3	1	—	1	—	—	—	12	13	7	—	33
Cancer, all sites	174	1	1	3	10	37	53	30	39	5	7	9	30	158	390	811	1272
Skin	2	—	—	—	—	—	2	—	—	—	—	—	—	—	15	—	—
Lip	2	—	—	—	—	—	1	—	1	—	—	—	—	—	7	—	33
Tongue	14	—	—	—	—	3	7	2	2	—	—	—	—	13	51	54	65
Œsophagus	17	—	—	—	—	4	6	5	2	—	—	—	—	17	44	135	65
Stomach	33	—	—	—	1	8	6	7	11	—	—	—	3	34	44	189	359
Other sites	106	1	1	3	9	22	31	16	23	5	7	9	27	94	228	433	750
Chronic rheumatism, etc., Gout	19	—	—	—	1	6	5	4	3	—	—	—	3	26	37	108	98
Diabetes	14	2	—	3	2	2	3	1	1	10	—	9	6	9	22	27	33
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	137	—	—	1	4	19	37	30	46	—	—	3	12	81	272	811	1500
Other dis. of the nervous system	43	—	1	6	7	5	13	3	8	—	7	19	21	21	96	81	261
Valvular disease of heart	95	—	1	10	7	12	25	14	26	—	7	31	21	51	184	378	848
Other heart disease	84	2	2	3	9	10	21	8	29	10	13	9	27	43	154	216	946
Arterio-sclerosis	75	—	—	3	4	9	12	12	35	—	—	9	12	39	88	324	1142
Other dis. of circulatory system	4	—	—	—	—	1	—	2	1	—	—	—	—	4	—	54	33
Bronchitis	97	—	—	3	3	7	15	22	47	—	—	9	9	30	110	595	1533
Pneumonia	104	5	3	13	17	17	24	8	17	26	20	40	51	73	176	216	554
Chronic interstitial pneumonia	1	—	—	—	1	—	—	—	—	—	—	—	3	—	—	—	—
Other dis. of respiratory system	25	1	1	—	2	6	3	6	6	5	7	—	6	26	22	162	196
Ulcer of stomach	14	—	—	—	3	5	4	—	2	—	—	—	9	21	29	—	65
Ulcer of duodenum	9	—	1	—	2	4	1	1	—	—	7	—	6	17	7	27	—
Appendicitis	10	3	3	2	—	2	—	—	—	16	20	6	—	9	—	—	—
Hernia	5	—	1	—	—	1	1	—	2	—	7	—	—	4	7	—	65
Intestinal obstruction	6	1	—	1	—	1	3	—	—	5	—	3	—	4	22	—	—
Cirrhosis of liver	9	—	—	—	1	2	4	1	1	—	—	—	3	9	29	27	33
Other dis. of digestive system	25	1	2	3	3	8	3	3	2	5	13	9	9	34	22	81	65
Acute nephritis	7	1	—	1	2	1	2	—	—	5	—	3	6	4	15	—	—
Chronic nephritis	88	—	1	4	7	16	36	10	14	—	7	12	21	68	265	270	457
Diseases of the prostate	13	—	—	—	—	1	2	2	8	—	—	—	—	4	15	54	261
Other genito-urinary diseases	11	—	—	—	1	2	4	1	3	—	—	—	3	9	29	27	98
Old age	57	—	—	—	—	—	5	1	51	—	—	—	—	—	37	27	1663
Suicide	28	—	—	1	5	2	13	2	5	—	—	3	15	9	96	54	163
Accident	65	7	2	11	10	10	19	3	3	36	13	34	30	43	140	81	98
Other causes	67	7	6	9	6	18	7	8	6	—	—	—	—	—	—	—	—
All causes	1,547	56	46	126	168	257	345	183	366	291	308	391	508	1100	2538	4947	11937
Years of life (Census population × 3)	143,247	19,239	14,925	32,265	33,087	23,370	13,596	3,699	3,066								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	118	88	98	79	95	99	99	88								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 937
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 93

OCCUPATIONAL GROUP 43.—RIVETTERS AND THEIR LABOURERS (255, 256).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	27	3	1	9	2	5	4	—	3	16	7	44	12	43	64	—	505
Respiratory tuberculosis	139	18	23	28	36	22	10	2	—	98	167	138	218	188	160	158	—
Other tuberculosis	8	1	1	1	2	3	—	—	—	5	7	5	12	26	—	—	—
Syphilis, etc.	23	—	1	1	7	4	10	—	—	—	7	5	42	34	160	—	—
Syphilis	4	—	1	1	—	1	1	—	—	—	7	5	—	9	16	—	—
Tabes dorsalis	3	—	—	—	—	—	3	—	—	—	—	—	—	—	48	—	—
General paralysis of insane	10	—	—	—	7	2	1	—	—	—	—	—	42	17	16	—	—
Aneurysm	6	—	—	—	—	1	5	—	—	—	—	—	—	9	80	—	—
Cancer, all sites	91	1	—	2	15	16	25	17	15	5	—	10	91	137	399	1343	2525
Skin	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	79	—
Lip	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	168
Tongue	2	—	—	—	—	1	1	—	—	—	—	—	—	9	16	—	—
Œsophagus	7	—	—	—	1	2	3	—	1	—	—	—	6	17	48	—	168
Stomach	23	—	—	—	5	2	7	3	6	—	—	—	30	17	112	237	1010
Other sites	57	1	—	2	9	11	14	13	7	5	—	10	54	94	223	1027	1178
Chronic rheumatism, etc., Gout	4	—	—	—	—	1	—	1	2	—	—	—	—	9	—	79	337
Diabetes	5	—	—	1	—	2	1	1	—	—	—	5	—	17	16	79	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	53	—	—	1	—	5	19	12	16	—	—	5	—	43	303	948	2694
Other dis. of the nervous system	26	7	2	2	7	4	3	—	1	38	15	10	42	34	48	—	168
Valvular disease of heart	52	3	—	5	7	9	10	6	12	16	—	25	42	77	160	474	2020
Other heart disease	48	2	2	3	5	7	14	5	10	11	15	15	30	60	223	395	1684
Arterio-sclerosis	32	—	—	—	—	3	8	4	17	—	—	—	—	26	128	316	2862
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	78	—	—	4	5	11	18	12	28	—	—	20	30	94	287	948	4714
Pneumonia	87	8	9	13	19	17	9	7	5	43	65	64	115	145	144	553	842
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	6	—	1	—	2	—	1	—	2	—	7	—	12	—	16	—	337
Ulcer of stomach	3	—	—	—	1	2	—	—	—	—	—	—	6	17	—	—	—
Ulcer of duodenum	4	1	—	—	1	—	2	—	—	5	—	—	6	—	32	—	—
Appendicitis	9	4	1	2	—	1	1	—	—	22	7	10	—	9	16	—	—
Hernia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	168
Intestinal obstruction	2	—	—	—	—	1	1	—	—	—	—	—	—	9	16	—	—
Cirrhosis of liver	2	—	—	—	—	2	—	—	—	—	—	—	—	17	—	—	—
Other dis. of digestive system	14	—	1	1	4	1	3	1	3	—	7	5	24	9	48	79	505
Acute nephritis	2	—	—	—	1	—	1	—	—	—	—	—	6	—	16	—	—
Chronic nephritis	23	1	1	4	4	3	3	1	6	5	7	20	24	26	48	79	1010
Diseases of the prostate	7	—	—	—	—	—	2	3	2	—	—	—	—	—	32	237	337
Other genito-urinary diseases	7	—	—	—	1	3	1	—	2	—	—	—	6	26	16	—	337
Old age	35	—	—	—	—	—	1	1	33	—	—	—	—	—	16	79	5556
Suicide	6	—	—	1	—	2	2	1	—	—	—	5	—	17	32	79	—
Accident	51	13	9	8	5	6	7	1	2	71	65	40	30	51	112	79	337
Other causes	39	5	5	4	4	8	4	5	4	—	—	—	—	—	—	—	—
All causes	884	67	57	90	128	138	160	80	164	364	414	444	774	1178	2554	6319	27609
Years of life (Census population × 3)	88,800	18,411	13,770	20,250	16,530	11,715	6,264	1,266	594								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	147	118	112	121	102	99	127	203								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,062
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 108

OCCUPATIONAL GROUP 44.—TINSMITHS AND SHEET METAL WORKERS (264).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	44	1	3	4	5	5	13	2	11	7	23	18	27	33	123	64	346
Respiratory tuberculosis	156	1	23	26	39	33	26	5	3	7	173	114	209	218	246	161	94
Other tuberculosis	11	1	2	4	1	1	2	—	—	7	15	18	5	7	19	—	—
Syphilis, etc.	18	—	—	1	3	7	6	1	—	—	—	4	16	46	57	32	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	4	—	—	—	1	2	1	—	—	—	—	—	5	13	10	—	—
General paralysis of insane	9	—	—	1	1	4	2	1	—	—	—	4	5	26	19	32	—
Aneurysm	5	—	—	—	1	1	3	—	—	—	—	—	5	7	28	—	—
Cancer, all sites	144	—	1	2	7	21	63	18	32	—	8	9	37	139	596	579	1006
Skin	7	—	—	—	—	1	2	—	4	—	—	—	—	7	19	—	126
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	4	—	—	—	—	2	1	—	1	—	—	—	—	13	10	—	31
Œsophagus	8	—	—	—	—	1	6	1	—	—	—	—	—	7	57	32	—
Stomach	30	—	—	1	3	5	13	1	7	—	—	4	16	33	123	32	220
Other sites	95	—	1	1	4	12	41	16	20	—	8	4	21	79	388	514	629
Chronic rheumatism, etc., Gout	5	—	—	—	—	—	2	1	2	—	—	—	—	—	19	32	63
Diabetes	16	1	2	3	—	1	5	1	3	7	15	13	—	7	47	32	94
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	116	—	—	1	3	7	19	26	60	—	—	4	16	46	180	836	1887
Other dis. of the nervous system	36	1	2	—	4	9	5	5	10	7	15	—	21	59	47	161	314
Valvular disease of heart	66	—	1	4	7	10	17	8	19	—	8	18	37	66	161	257	597
Other heart disease	116	1	1	4	8	15	23	11	53	7	8	18	43	99	217	354	1667
Arterio-sclerosis	52	—	—	—	1	1	8	11	31	—	—	—	5	7	76	354	975
Other dis. of circulatory system	2	—	—	—	—	—	1	—	1	—	—	—	—	—	10	—	31
Bronchitis	122	—	1	—	1	11	15	23	71	—	8	—	5	73	142	739	2233
Pneumonia	116	3	4	10	15	27	23	15	19	22	30	44	80	178	217	482	597
Chronic interstitial pneumonia	2	—	—	—	—	2	—	—	—	—	—	—	—	13	—	—	—
Other dis. of respiratory system	13	—	—	1	—	3	2	1	6	—	—	4	—	20	19	32	189
Ulcer of stomach	15	1	1	—	7	2	1	2	1	7	8	—	37	13	10	64	31
Ulcer of duodenum	1	—	—	—	—	1	—	—	—	—	—	—	—	7	—	—	—
Appendicitis	9	2	—	1	—	2	2	2	—	14	—	4	—	13	19	64	—
Hernia	7	—	—	—	—	—	2	—	5	—	—	—	—	—	19	—	157
Intestinal obstruction	5	1	—	—	1	—	1	—	2	7	—	—	5	—	10	—	63
Cirrhosis of liver	5	—	—	1	—	—	—	3	1	—	—	4	—	—	—	96	31
Other dis. of digestive system	13	—	1	3	—	1	3	1	4	—	8	13	—	7	28	32	126
Acute nephritis	5	1	—	2	—	1	1	—	—	7	—	9	—	7	10	—	—
Chronic nephritis	52	—	1	1	2	8	13	9	18	—	8	4	11	53	123	289	566
Diseases of the prostate	12	—	—	—	—	—	3	2	7	—	—	—	—	—	28	64	220
Other genito-urinary diseases	10	—	—	—	—	2	2	3	3	—	—	—	—	13	19	96	94
Old age	80	—	—	—	—	—	6	4	70	—	—	—	—	—	57	129	2201
Suicide	18	—	—	—	5	4	4	—	5	—	—	—	27	26	38	—	157
Accident	28	2	4	6	3	2	3	1	7	14	30	26	16	13	28	32	220
Other causes	45	5	1	5	4	7	13	1	9	—	—	—	—	—	—	—	—
All causes	1,340	21	48	79	116	183	284	156	453	151	362	346	621	1210	2686	5014	14245
Years of life (Census population × 3)	100,656	13,905	13,263	22,809	18,684	15,129	10,575	3,111	3,180								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	61	103	87	97	105	104	100	105								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,011
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	101

OCCUPATIONAL GROUP 45.—GOLD, SILVER AND WHITE METAL SMITHS (284, 287, 288, 325).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	10	1	1	2	1	1	—	1	3	17	23	19	10	16	—	63	146
Respiratory tuberculosis	67	7	8	13	18	13	5	2	1	118	181	122	188	206	103	127	49
Other tuberculosis	8	2	1	2	2	—	—	—	1	34	23	19	21	—	—	—	49
Syphilis, etc.	13	—	—	1	2	2	6	1	1	—	—	9	21	32	123	63	49
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	21	—	—
General paralysis of insane	7	—	—	1	2	1	3	—	—	—	—	9	21	16	62	—	—
Aneurysm	5	—	—	—	—	1	2	1	1	—	—	—	—	16	41	63	49
Cancer, all sites	85	1	—	3	4	15	27	11	24	17	—	28	42	238	554	696	1171
Skin	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	49
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	3	—	—	—	—	—	3	—	—	—	—	—	—	—	62	—	—
Œsophagus	9	—	—	—	—	2	3	3	1	—	—	—	—	32	62	190	49
Stomach	10	—	—	—	1	4	4	—	1	—	—	—	10	63	82	—	49
Other sites	62	1	—	3	3	9	17	8	21	17	—	28	31	143	349	506	1025
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	98
Diabetes	4	—	—	—	—	—	3	1	—	—	—	—	—	—	62	63	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	43	—	—	—	—	3	9	8	23	—	—	—	—	48	185	506	1122
Other dis. of the nervous system	11	1	—	2	—	1	1	4	2	17	—	19	—	16	21	253	98
Valvular disease of heart	37	2	—	1	6	3	10	4	11	34	—	9	63	48	205	253	537
Other heart disease	44	1	—	3	4	4	10	7	15	17	—	28	42	63	205	443	732
Arterio-sclerosis	45	—	—	—	—	—	7	6	32	—	—	—	—	—	144	380	1562
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	49	—	—	—	3	5	6	11	24	—	—	—	31	79	123	696	1171
Pneumonia	42	4	2	3	8	5	9	3	8	67	45	28	84	79	185	190	390
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	10	—	—	—	2	5	1	1	1	—	—	—	21	79	21	63	49
Ulcer of stomach	2	—	—	1	—	1	—	—	—	—	—	9	—	16	—	—	—
Ulcer of duodenum	2	—	—	—	1	—	1	—	—	—	—	—	10	—	21	—	—
Appendicitis	3	2	—	1	—	—	—	—	—	34	—	9	—	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	4	—	1	—	1	—	1	—	1	—	23	—	10	—	21	—	49
Cirrhosis of liver	3	—	—	—	—	—	1	1	1	—	—	—	—	—	21	63	49
Other dis. of digestive system	10	—	—	1	—	1	4	1	3	—	—	9	—	16	82	63	146
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	18	—	1	2	4	3	2	3	3	—	23	19	42	48	41	190	146
Diseases of the prostate	7	—	—	—	—	—	—	—	7	—	—	—	—	—	—	—	342
Other genito-urinary diseases	6	—	1	—	—	—	2	—	3	—	23	—	—	—	41	—	146
Old age	49	—	—	—	—	—	—	6	43	—	—	—	—	—	—	380	2099
Suicide	15	1	—	2	3	1	2	1	5	17	—	19	31	16	41	63	244
Accident	16	2	—	—	2	5	2	1	4	34	—	—	21	79	41	63	195
Other causes	21	3	—	2	4	—	10	—	2	—	—	—	—	—	—	—	—
All causes	626	27	15	39	65	68	119	73	220	454	339	365	679	1077	2443	4617	10737
Years of life (Census population × 3)	45,444	5,952	4,428	10,674	9,573	6,315	4,872	1,581	2,049								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	184	96	91	106	93	95	93	79								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	961
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	96

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

OCCUPATIONAL GROUP 46.—ELECTRICAL ENGINEERS, FITTERS AND WIREMEN (305–307, 311).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	55	3	4	12	13	10	10	—	3	6	8	15	24	37	110	—	298
Respiratory tuberculosis	371	29	83	98	86	47	22	3	3	56	156	126	157	173	242	217	298
Other tuberculosis	42	10	9	9	9	4	—	1	—	19	17	12	16	15	—	72	—
Syphilis, etc.	60	—	—	4	24	24	5	2	1	—	—	5	44	88	55	145	99
Syphilis	2	—	—	—	—	2	—	—	—	—	—	—	—	7	—	—	—
Tabes dorsalis	7	—	—	1	1	2	1	1	1	—	—	1	2	7	11	72	99
General paralysis of insane	43	—	—	3	23	14	3	—	—	—	—	4	42	51	33	—	—
Aneurysm	8	—	—	—	—	6	1	1	—	—	—	—	—	22	11	72	—
Cancer, all sites	144	—	1	9	25	34	51	12	12	—	2	12	46	125	561	870	1190
Skin	6	—	—	—	—	1	3	1	1	—	—	—	—	4	33	72	99
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	5	—	—	—	1	—	3	1	—	—	—	—	2	—	33	72	—
Œsophagus	16	—	—	—	2	3	11	—	—	—	—	—	4	11	121	—	—
Stomach	31	—	—	2	8	10	7	—	4	—	—	3	15	37	77	—	397
Other sites	86	—	1	7	14	20	27	10	7	—	2	9	26	74	297	725	694
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	1	—	1	—	—	—	—	—	11	—	99
Diabetes	22	4	6	2	3	2	3	1	1	8	11	3	6	7	33	72	99
Alcoholism	1	—	—	—	1	—	—	—	—	—	—	—	2	—	—	—	—
Cerebral hæmorrhage, etc.	59	—	—	1	9	18	14	7	10	—	—	1	16	66	154	507	992
Other dis. of the nervous system	65	6	7	10	18	10	10	3	1	12	13	13	33	37	110	217	99
Valvular disease of heart	92	6	6	10	13	15	25	9	8	12	11	13	24	55	275	652	794
Other heart disease	100	4	3	10	18	23	21	7	14	8	6	13	33	85	231	507	1389
Arterio-sclerosis	44	—	—	—	1	3	17	4	19	—	—	—	2	11	187	290	1885
Other dis. of circulatory system	3	—	—	—	2	—	1	—	—	—	—	—	4	—	11	—	—
Bronchitis	53	—	1	1	9	15	13	6	8	—	2	1	16	55	143	435	794
Pneumonia	133	10	8	22	40	32	13	4	4	19	15	28	73	118	143	290	397
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	21	2	—	2	6	4	5	1	1	4	—	3	11	15	55	72	99
Ulcer of stomach	24	—	—	2	6	13	1	2	—	—	—	3	11	48	11	145	—
Ulcer of duodenum	9	1	1	1	2	1	3	—	—	2	2	1	4	4	33	—	—
Appendicitis	24	8	2	7	3	2	1	1	—	15	4	9	6	7	11	72	—
Hernia	4	—	—	—	1	1	—	2	—	—	—	—	2	4	—	145	—
Intestinal obstruction	13	—	—	2	5	1	4	1	—	—	—	3	9	4	44	72	—
Cirrhosis of liver	13	—	1	1	2	3	6	—	—	—	2	1	4	11	66	—	—
Other dis. of digestive system	26	—	3	4	5	4	3	3	4	—	6	5	9	15	33	217	397
Acute nephritis	7	2	—	2	—	1	2	—	—	4	—	3	—	4	22	—	—
Chronic nephritis	36	1	1	7	10	5	9	1	2	2	2	9	18	18	99	72	198
Diseases of the prostate	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	145	—
Other genito-urinary diseases	18	—	3	4	—	5	4	1	1	—	6	5	—	18	44	72	99
Old age	14	—	—	—	—	—	—	1	13	—	—	—	—	—	—	72	1290
Suicide	43	3	4	8	10	9	6	2	1	6	8	10	18	33	66	145	99
Accident	115	20	23	25	19	14	11	2	1	39	43	32	35	51	121	145	99
Other causes	81	13	10	19	14	13	8	1	3	—	—	—	—	—	—	—	—
All causes	1,696	122	176	272	354	313	269	79	111	235	331	351	646	1151	2959	5725	11012
Years of life (Census population × 3)	275,985	51,837	53,172	77,511	54,804	27,183	9,090	1,380	1,008								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	95	94	88	101	100	115	115	81								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,042
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	99

OCCUPATIONAL GROUP 47.—MAKERS OF WATCHES, CLOCKS, SCIENTIFIC AND ELECTRICAL INSTRUMENTS (309, 322–324).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	32	3	1	2	3	5	8	4	6	28	9	11	24	50	104	147	181
Respiratory tuberculosis	106	9	21	34	15	15	8	3	1	84	191	194	121	150	104	111	30
Other tuberculosis	12	5	3	2	1	1	—	—	—	47	27	11	8	10	—	—	—
Syphilis, etc.	9	—	—	2	1	2	3	1	—	—	—	11	8	20	39	37	—
Syphilis	1	—	—	1	—	—	—	—	—	—	—	6	—	—	—	—	—
Tabes dorsalis	2	—	—	1	—	—	1	—	—	—	—	6	—	—	13	—	—
General paralysis of insane	1	—	—	—	—	1	—	—	—	—	—	—	—	10	—	—	—
Aneurysm	5	—	—	—	1	1	2	1	—	—	—	—	8	10	26	37	—
Cancer, all sites	94	—	—	1	—	10	41	16	26	—	—	6	—	100	534	590	786
Skin	3	—	—	—	—	—	1	1	1	—	—	—	—	—	13	37	30
Lip	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	30
Tongue	5	—	—	—	—	—	3	—	2	—	—	—	—	—	39	—	60
Œsophagus	11	—	—	—	—	1	6	4	—	—	—	—	—	10	78	147	—
Stomach	20	—	—	—	—	3	9	3	5	—	—	—	—	30	117	111	151
Other sites	54	—	—	1	—	6	22	8	17	—	—	6	—	60	287	295	514
Chronic rheumatism, etc., Gout	5	—	—	—	—	2	—	2	1	—	—	—	—	20	—	74	30
Diabetes	8	—	—	—	1	3	3	—	1	—	—	—	8	30	39	—	30
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	68	—	—	—	1	5	8	6	48	—	—	—	8	50	104	221	1451
Other dis. of the nervous system	24	—	1	4	3	2	5	2	7	—	9	23	24	20	65	74	212
Valvular disease of heart	43	1	—	7	3	1	10	6	15	9	—	40	24	10	130	221	453
Other heart disease	93	1	4	4	7	5	20	14	38	9	36	23	56	50	260	516	1148
Arterio-sclerosis	31	—	—	—	—	—	7	4	20	—	—	—	—	—	91	147	604
Other dis. of circulatory system	2	—	—	—	—	—	1	1	—	—	—	—	—	—	13	37	—
Bronchitis	58	—	1	—	1	3	5	5	43	—	9	—	8	30	65	184	1299
Pneumonia	41	1	—	5	4	2	9	5	15	9	—	28	32	20	117	184	453
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	9	—	—	1	1	1	1	3	2	—	—	6	8	10	13	111	60
Ulcer of stomach	7	—	—	—	4	1	1	—	1	—	—	—	32	10	13	—	30
Ulcer of duodenum	4	—	1	—	—	—	1	2	—	—	9	—	—	—	13	74	—
Appendicitis	5	—	1	—	—	1	—	—	3	—	9	—	—	10	—	—	91
Hernia	7	—	—	2	—	—	—	2	3	—	—	11	—	—	—	74	91
Intestinal obstruction	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	30
Cirrhosis of liver	4	—	—	—	—	1	—	2	1	—	—	—	—	10	—	74	30
Other dis. of digestive system	16	—	1	3	1	2	2	1	6	—	9	17	8	20	26	37	181
Acute nephritis	1	—	—	—	1	—	—	—	—	—	—	—	8	—	—	—	—
Chronic nephritis	36	—	—	—	1	4	19	5	7	—	—	—	8	40	247	184	212
Diseases of the prostate	22	—	—	—	—	—	4	2	16	—	—	—	—	—	52	74	484
Other genito-urinary diseases	4	—	—	—	1	1	—	—	2	—	—	—	8	10	—	—	60
Old age	87	—	—	—	—	—	1	5	81	—	—	—	—	—	13	184	2448
Suicide	20	—	—	3	6	4	5	1	1	—	—	17	48	40	65	37	30
Accident	15	4	—	—	3	1	—	3	4	37	—	—	24	10	—	111	121
Other causes	28	3	2	6	1	5	2	1	8	—	—	—	—	—	—	—	—
All causes	892	27	36	76	59	77	164	96	357	252	328	433	475	769	2136	3540	10789
Years of life (Census population × 3)	75,393	10,719	10,989	17,553	12,420	10,014	7,677	2,712	3,309								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	102	93	109	74	67	83	71	79								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	804
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	82

OCCUPATIONAL GROUP 48.—SKILLED LIME AND TANYARD WORKERS, CURRIERS, AND LEATHER DRESSERS (NOT FINISHERS) (333, 334, 338).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	26	—	2	1	2	5	6	1	9	—	34	9	20	49	88	41	370
Respiratory tuberculosis	114	6	14	23	27	20	14	7	3	122	240	212	266	198	206	289	123
Other tuberculosis	7	—	—	2	2	—	2	1	—	—	—	18	20	—	29	41	—
Syphilis, etc	8	—	—	—	5	1	2	—	—	—	—	—	49	10	29	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	1	—	—	—	—	—	—	—	10	—	—	—	—
General paralysis of insane	5	—	—	—	3	1	1	—	—	—	—	—	30	10	15	—	—
Aneurysm	2	—	—	—	1	—	1	—	—	—	—	—	10	—	15	—	—
Cancer, all sites	134	—	1	3	7	17	39	24	43	—	17	28	69	168	573	991	1770
Skin	5	—	—	—	—	—	2	—	3	—	—	—	—	—	29	—	123
Lip	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	41
Tongue	9	—	—	1	—	2	2	3	1	—	—	9	—	20	29	124	41
Œsophagus	9	—	—	—	1	1	5	1	1	—	—	—	10	10	73	41	41
Stomach	26	—	—	—	1	7	7	6	5	—	—	—	10	69	103	248	206
Other sites	84	—	1	2	5	7	23	14	32	—	17	18	49	69	338	578	1317
Chronic rheumatism, etc, Gout	4	—	—	—	—	1	—	—	3	—	—	—	—	10	—	—	123
Diabetes	7	—	—	3	—	—	1	—	3	—	—	28	—	—	15	—	123
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc	75	—	1	—	—	3	10	13	48	—	17	—	—	30	147	537	1975
Other dis. of the nervous system	13	2	—	—	—	2	5	1	3	41	—	—	—	20	73	41	123
Valvular disease of heart	56	—	—	3	5	9	12	6	21	—	—	28	49	89	176	248	864
Other heart disease	81	1	—	2	4	10	9	12	43	20	—	18	39	99	132	496	1770
Arterio-sclerosis	55	—	—	—	1	2	8	13	31	—	—	—	10	20	118	537	1276
Other dis. of circulatory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	41
Bronchitis	93	—	—	—	2	6	13	11	61	—	—	—	20	59	191	454	2510
Pneumonia	73	2	1	6	10	18	12	10	14	41	17	55	98	178	176	413	576
Chronic interstitial pneumonia	1	1	—	—	—	—	—	—	—	20	—	—	—	—	—	—	—
Other dis. of respiratory system	8	—	—	—	2	2	—	1	3	—	—	—	20	20	—	41	123
Ulcer of stomach	6	—	—	1	5	—	—	—	—	—	—	9	49	—	—	—	—
Ulcer of duodenum	5	—	—	2	—	2	1	—	—	—	—	18	—	20	15	—	—
Appendicitis	6	—	1	2	—	1	1	1	—	—	17	18	—	10	15	41	—
Hernia	5	—	—	—	—	1	1	1	2	—	—	—	—	10	15	41	82
Intestinal obstruction	7	—	—	1	—	1	2	3	—	—	—	9	—	10	29	124	—
Cirrhosis of liver	9	—	—	—	—	1	7	1	—	—	—	—	—	10	103	41	—
Other dis. of digestive system	12	1	—	—	1	2	—	—	8	20	—	—	10	20	—	—	329
Acute nephritis	3	—	—	1	1	—	—	—	1	—	—	9	10	—	—	—	41
Chronic nephritis	26	—	—	1	—	2	10	2	11	—	—	9	—	20	147	83	453
Diseases of the prostate	16	—	—	—	—	—	1	4	11	—	—	—	—	—	15	165	453
Other genito-urinary diseases	19	—	—	1	—	2	3	4	9	—	—	9	—	20	44	165	370
Old age	68	—	—	—	—	—	1	1	66	—	—	—	—	—	15	41	2716
Suicide	22	1	1	1	2	3	9	4	1	20	17	9	20	30	132	165	41
Accident	20	—	1	3	2	3	5	—	6	—	17	28	20	30	73	—	247
Other causes	30	1	3	2	4	3	8	4	5	—	—	—	—	—	—	—	—
All causes	1,010	15	25	58	82	117	182	125	406	304	428	535	806	1157	2674	5163	16708
Years of life (Census population × 3)	53,553	4,932	5,841	10,839	10,170	10,113	6,807	2,421	2,430								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	123	122	134	126	100	104	103	123								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,111
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	110

OCCUPATIONAL GROUP 49.—SKILLED LEATHER GOODS MAKERS (341-348).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	31	—	3	—	2	8	8	6	4	—	54	—	14	58	88	195	112
Respiratory tuberculosis	94	6	7	20	24	24	5	4	4	112	127	160	171	175	55	130	112
Other tuberculosis	15	1	5	4	2	1	2	—	—	19	91	32	14	7	22	—	—
Syphilis, etc	15	—	—	—	1	4	7	3	—	—	—	—	7	29	77	97	—
Syphilis	3	—	—	—	—	—	2	1	—	—	—	—	—	—	22	32	—
Tabes dorsalis	4	—	—	—	—	2	1	1	—	—	—	—	—	15	11	32	—
General paralysis of insane	4	—	—	—	1	—	3	—	—	—	—	—	7	—	33	—	—
Aneurysm	4	—	—	—	—	2	1	1	—	—	—	—	—	15	11	32	—
Cancer, all sites	114	—	—	—	3	11	35	28	37	—	—	—	21	80	386	908	1033
Skin	3	—	—	—	—	1	—	—	2	—	—	—	—	7	—	—	56
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	4	—	—	—	—	—	2	1	1	—	—	—	—	—	22	32	28
Œsophagus	16	—	—	—	1	3	6	2	4	—	—	—	7	22	66	65	112
Stomach	18	—	—	—	1	—	10	5	2	—	—	—	7	—	110	162	56
Other sites	73	—	—	—	1	7	17	20	28	—	—	—	7	51	187	649	782
Chronic rheumatism, etc, Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	10	1	—	1	—	2	4	2	—	19	—	8	—	15	44	65	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc	93	—	—	—	2	7	18	16	50	—	—	—	14	51	198	519	1396
Other dis. of the nervous system	28	—	3	2	1	4	5	7	6	—	54	16	7	29	55	227	168
Valvular disease of heart	73	—	2	5	7	13	18	8	20	—	36	40	50	95	198	259	558
Other heart disease	94	2	1	4	3	11	19	17	37	37	18	32	21	80	209	551	1033
Arterio-sclerosis	42	—	—	—	2	2	8	5	25	—	—	—	14	15	88	162	698
Other dis. of circulatory system	3	—	1	—	—	—	2	—	—	—	18	—	—	—	22	—	—
Bronchitis	88	2	—	3	—	6	16	12	49	37	—	24	—	44	176	389	1368
Pneumonia	56	—	2	4	5	11	10	10	14	—	36	32	36	80	110	324	391
Chronic interstitial pneumonia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	28
Other dis. of respiratory system	16	—	—	1	—	4	2	5	4	—	—	8	—	29	22	162	112
Ulcer of stomach	5	—	—	—	2	2	1	—	—	—	—	—	14	15	11	—	—
Ulcer of duodenum	3	—	—	—	2	1	—	—	—	—	—	—	14	7	—	—	—
Appendicitis	4	—	—	—	—	2	—	2	—	—	—	—	—	15	—	65	—
Hernia	4	—	—	—	—	1	1	2	—	—	—	—	—	7	11	65	—
Intestinal obstruction	7	—	1	—	—	2	1	—	3	—	18	—	—	15	11	—	84
Cirrhosis of liver	4	—	—	—	—	3	—	—	1	—	—	—	—	22	—	—	28
Other dis. of digestive system	15	—	—	—	2	4	3	—	6	—	—	—	14	29	33	—	168
Acute nephritis	2	—	—	1	1	—	—	—	—	—	—	8	7	—	—	—	—
Chronic nephritis	27	—	1	1	1	6	4	4	10	—	18	8	7	44	44	130	279
Diseases of the prostate	12	—	—	—	—	—	2	1	9	—	—	—	—	—	22	32	251
Other genito-urinary diseases	6	—	—	—	—	—	1	—	5	—	—	—	—	—	11	—	140
Old age	85	—	—	—	—	—	1	7	77	—	—	—	—	—	11	227	2150
Suicide	10	—	1	1	5	2	—	1	—	—	18	8	36	15	—	32	—
Accident	21	2	—	2	5	4	3	1	4	37	—	16	36	29	33	32	112
Other causes	33	2	2	2	3	8	7	6	3	—	—	—	—	—	—	—	—
All causes	1,011	16	29	51	73	143	183	147	369	300	527	409	520	1043	2017	4767	10302
Years of life (Census population × 3)	66,789	5,337	5,508	12,468	14,031	13,704	9,075	3,084	3,582								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	121	150	103	81	90	78	96	76								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	887
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	86

OCCUPATIONAL GROUP 50.—WOOL SORTERS (352, 360).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	8	1	1	—	—	1	2	1	2	155	113	—	—	41	108	132	262
Respiratory tuberculosis	16	1	—	3	5	4	3	—	—	155	—	122	282	163	162	—	—
Other tuberculosis	1	—	1	—	—	—	—	—	—	—	113	—	—	—	—	—	—
Syphilis, etc.	5	—	—	—	2	—	3	—	—	—	—	—	113	—	162	—	—
Syphilis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	54	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	3	—	—	—	2	—	1	—	—	—	—	—	113	—	54	—	—
Aneurysm	1	—	—	—	—	—	1	—	—	—	—	—	—	—	54	—	—
Cancer, all sites	29	—	—	—	—	3	8	9	9	—	—	—	—	123	431	1186	1181
Skin	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	262
Lip	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	131
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	4	—	—	—	—	2	—	1	1	—	—	—	—	82	—	132	131
Stomach	4	—	—	—	—	—	2	1	1	—	—	—	—	—	108	132	131
Other sites	18	—	—	—	—	1	6	7	4	—	—	—	—	41	323	922	525
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	132	—
Diabetes	5	—	2	—	—	—	1	—	2	—	227	—	—	—	54	—	262
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	16	—	—	—	—	—	4	6	6	—	—	—	—	—	215	791	787
Other dis. of the nervous system	7	—	—	—	—	—	1	—	6	—	—	—	—	—	54	—	787
Valvular disease of heart	17	—	—	1	2	3	—	5	6	—	—	41	113	123	—	659	787
Other heart disease	22	—	—	3	1	2	3	4	9	—	—	122	56	82	162	527	1181
Arterio-sclerosis	13	—	—	—	—	3	2	—	8	—	—	—	—	123	108	—	1050
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	20	—	—	—	1	2	2	3	12	—	—	—	56	82	108	395	1575
Pneumonia	18	—	—	3	1	6	4	2	2	—	—	122	56	245	215	264	262
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	3	—	—	—	—	—	—	2	1	—	—	—	—	—	—	264	131
Ulcer of stomach	4	—	—	1	—	1	1	—	1	—	—	41	—	41	54	—	131
Ulcer of duodenum	2	—	—	1	—	—	1	—	—	—	—	41	—	—	54	—	—
Appendicitis	2	1	—	—	1	—	—	—	—	155	—	—	56	—	—	—	—
Hernia		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	4	—	—	—	—	—	—	1	3	—	—	—	—	—	—	132	394
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	5	—	1	—	—	1	2	—	1	—	113	—	—	41	108	—	131
Diseases of the prostate	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	132	—
Other genito-urinary diseases	3	—	—	—	1	1	—	—	1	—	—	—	56	41	—	—	131
Old age	17	—	—	—	—	—	—	—	17	—	—	—	—	—	—	—	2231
Suicide	10	—	—	1	—	1	7	—	1	—	—	41	—	41	377	—	131
Accident	5	—	—	1	—	—	2	1	1	—	—	41	—	—	108	132	131
Other causes	17	—	—	2	—	—	12	2	1	—	—	—	—	—	—	—	—
All causes	251	3	5	16	14	28	58	38	89	465	567	652	790	1144	3123	5007	11680
Years of life (Census population × 3)	11,580	645	882	2,454	1,773	2,448	1,857	759	762								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	188	161	163	124	99	121	100	86								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,225
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	117

OCCUPATIONAL GROUP 51.—COTTON BLOW ROOM OPERATIVES—SKILLED
(Occ. 351, 362. Ind. 260–9).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	3	—	—	—	—	2	—	1	—	—	—	—	—	107	—	314	—
Respiratory tuberculosis	13	2	2	1	4	2	—	1	1	238	177	50	207	107	—	314	585
Other tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis, etc.	1	—	—	—	—	1	—	—	—	—	—	—	—	54	—	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	1	—	—	—	—	1	—	—	—	—	—	—	—	54	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	21	—	—	1	2	1	7	6	4	—	—	50	104	54	562	1887	2339
Skin	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	314	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	—	1	—	—	—	—	—	—	—	80	—	—
Œsophagus	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	314	—
Stomach	7	—	—	—	1	—	3	2	1	—	—	—	52	—	241	629	585
Other sites	11	—	—	1	1	1	3	2	3	—	—	50	52	54	241	629	1754
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	585
Diabetes	4	—	1	—	1	—	1	1	—	—	88	—	52	—	80	314	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	14	—	—	—	—	2	6	3	3	—	—	—	—	107	482	943	1754
Other dis. of the nervous system	5	—	—	—	2	2	1	—	—	—	—	—	104	107	80	—	—
Valvular disease of heart	11	—	—	1	4	—	3	2	1	—	—	50	207	—	241	629	585
Other heart disease	12	1	—	—	2	2	3	1	3	119	—	—	104	107	241	314	1754
Arterio-sclerosis	6	—	—	—	—	1	2	—	3	—	—	—	—	54	161	—	1754
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	19	—	—	—	1	5	6	3	4	—	—	—	52	268	482	943	2339
Pneumonia	19	—	2	2	2	3	6	—	4	—	177	100	104	161	482	—	2339
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	4	—	—	—	—	2	—	1	1	—	—	—	—	107	—	314	585
Ulcer of stomach	1	—	—	—	—	—	1	—	—	—	—	—	—	—	80	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	2	1	—	1	—	—	—	—	—	119	—	50	—	—	—	—	—
Hernia	1	—	—	—	—	1	—	—	—	—	—	—	—	54	—	—	—
Intestinal obstruction	1	—	—	—	—	—	1	—	—	—	—	—	—	—	80	—	—
Cirrhosis of liver	5	—	—	—	—	1	1	1	2	—	—	—	—	54	80	314	1170
Other dis. of digestive system	5	—	—	1	—	—	1	1	2	—	—	50	—	—	80	314	1170
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	9	—	—	1	1	4	2	—	1	—	—	50	52	214	161	—	585
Diseases of the prostate	1	—	—	—	—	—	1	—	—	—	—	—	—	—	80	—	—
Other genito-urinary diseases	3	—	—	—	1	1	1	—	—	—	—	—	52	54	80	—	—
Old age	8	—	—	—	—	—	1	—	7	—	—	—	—	—	80	—	4094
Suicide	5	—	—	—	—	3	1	1	—	—	—	—	—	161	80	314	—
Accident	1	—	1	—	—	—	—	—	—	—	88	—	—	—	—	—	—
Other causes	8	—	1	1	1	1	2	1	1	—	—	—	—	—	—	—	—
All causes	183	4	7	9	21	34	47	23	38	476	619	451	1089	1822	3775	7233	22222
Years of life (Census population × 3)	9,495	840	1,131	1,995	1,929	1,866	1,245	318	171								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	193	176	113	170	158	147	145	164								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,516
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	151

OCCUPATIONAL GROUP 52.—RAG GRINDERS; WOOL WILLOWERS, ETC. (351, part; 362, part).*

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

Cause of Death	Numbers of Deaths at Ages— All Ages 16 and upwards.	16–	20–	25–	35–	45–	55–	65–	70 and upwards.	Mean Annual Death-rate per 100,000. 16–	20–	25–	35–	45–	55–	65–	70 and up.
Influenza	7	—	1	1	—	1	—	2	2	—	87	48	—	35	—	337	775
Respiratory tuberculosis	19	—	6	—	4	4	3	2	—	—	524	—	168	141	136	337	—
Other tuberculosis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	45	—	—
Syphilis, etc.	4	—	—	—	1	—	3	—	—	—	—	—	42	—	136	—	—
Syphilis	1	—	—	—	1	—	—	—	—	—	—	—	42	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	1	—	—	—	—	—	1	—	—	—	—	—	—	—	45	—	—
Aneurysm	2	—	—	—	—	—	2	—	—	—	—	—	—	—	91	—	—
Cancer, all sites	30	—	—	1	3	5	10	6	5	—	—	48	126	176	454	1010	1938
Skin	2	—	—	—	1	—	1	—	—	—	—	—	42	—	45	—	—
Lip	1	—	—	—	—	—	1	—	—	—	—	—	—	—	45	—	—
Tongue	1	—	—	—	—	—	1	—	—	—	—	—	—	—	45	—	—
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	10	—	—	—	2	3	3	1	1	—	—	—	84	105	136	168	388
Other sites	16	—	—	1	—	2	4	5	4	—	—	48	—	70	182	842	1550
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	1	—	—	—	—	—	—	—	45	—	—
Diabetes	2	—	—	—	—	—	1	—	1	—	—	—	—	—	45	—	388
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	23	—	—	—	1	3	9	5	5	—	—	—	42	105	409	842	1938
Other dis. of the nervous system	9	—	—	—	—	2	5	1	1	—	—	—	—	70	227	168	388
Valvular disease of heart	14	—	—	1	—	3	3	6	1	—	—	48	—	105	136	1010	388
Other heart disease	18	—	—	2	1	1	9	2	3	—	—	95	42	35	409	337	1163
Arterio-sclerosis	18	—	—	—	—	—	5	5	8	—	—	—	—	—	227	842	3101
Other dis. of circulatory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	388
Bronchitis	20	—	—	—	—	2	9	2	7	—	—	—	—	70	409	337	2713
Pneumonia	10	—	—	—	3	2	1	1	3	—	—	—	126	70	45	168	1163
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	388
Ulcer of stomach	1	—	—	—	1	—	—	—	—	—	—	—	42	—	—	—	—
Ulcer of duodenum	3	—	—	—	—	2	1	—	—	—	—	—	—	70	45	—	—
Appendicitis	2	—	—	—	—	1	—	1	—	—	—	—	—	35	—	168	—
Hernia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	388
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	1	—	—	—	—	—	1	—	—	—	—	—	—	—	45	—	—
Other dis. of digestive system	3	—	—	—	1	—	2	—	—	—	—	—	42	—	91	—	—
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	15	—	—	1	1	3	4	4	2	—	—	48	42	105	182	673	775
Diseases of the prostate	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	775
Other genito-urinary diseases	1	—	—	—	—	1	—	—	—	—	—	—	—	35	—	—	—
Old age	6	—	—	—	—	—	—	—	6	—	—	—	—	—	—	—	2326
Suicide	6	—	—	—	1	1	2	2	—	—	—	—	42	35	91	337	—
Accident	4	—	—	1	—	—	1	1	1	—	—	48	—	—	45	168	388
Other causes	10	1	1	—	2	3	2	1	—	—	—	—	—	—	—	—	—
All causes	233	1	8	7	19	34	73	41	50	144	698	334	799	1194	3315	6902	19380
Years of life (Census population × 3)	12,213	693	1,146	2,094	2,379	2,847	2,202	594	258								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	58	198	84	125	103	129	138	143								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,198
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	121

OCCUPATIONAL GROUP 53.—COTTON CARD AND FRAME (NOT SPINNING FRAME) TENTERS (Occ. 353, 363. Ind. 260–9).

Cause of Death	Numbers of Deaths at Ages— All Ages 16 and upwards.	16–	20–	25–	35–	45–	55–	65–	70 and upwards.	Mean Annual Death-rate per 100,000. 16–	20–	25–	35–	45–	55–	65–	70 and up.
Influenza	9	—	—	1	3	2	1	—	2	—	—	38	97	81	80	—	654
Respiratory tuberculosis	19	1	1	4	4	6	2	1	—	50	83	154	130	243	160	235	—
Other tuberculosis	3	—	1	1	—	—	—	—	1	—	83	38	—	—	—	—	327
Syphilis, etc.	1	—	—	—	1	—	—	—	—	—	—	—	32	—	—	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	1	—	—	—	1	—	—	—	—	—	—	—	32	—	—	—	—
Cancer, all sites	28	—	—	—	3	5	9	3	8	—	—	—	97	202	719	704	2614
Skin	3	—	—	—	1	—	1	—	1	—	—	—	32	—	80	—	327
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	235	—
Œsophagus	2	—	—	—	—	1	—	1	—	—	—	—	—	40	—	235	—
Stomach	3	—	—	—	—	2	—	—	1	—	—	—	—	81	—	—	327
Other sites	19	—	—	—	2	2	8	1	6	—	—	—	65	81	639	235	1961
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	4	—	—	—	—	1	—	—	3	—	—	—	—	40	—	—	980
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	21	—	—	—	2	5	6	3	5	—	—	—	65	202	480	704	1634
Other dis. of the nervous system	2	—	1	—	—	1	—	—	—	—	83	—	—	40	—	—	—
Valvular disease of heart	22	—	—	1	4	2	6	5	4	—	—	38	130	81	480	1174	1307
Other heart disease	23	—	—	2	—	3	6	2	10	—	—	77	—	121	480	469	3268
Arterio-sclerosis	9	—	—	—	—	2	—	1	6	—	—	—	—	81	—	235	1961
Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	80	—	—
Bronchitis	32	—	—	—	—	1	6	8	17	—	—	—	—	40	480	1878	5556
Pneumonia	21	—	—	1	7	3	7	2	1	—	—	38	227	121	560	469	327
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	4	—	—	1	—	—	3	—	—	—	—	38	—	—	240	—	—
Ulcer of stomach	5	—	—	—	3	1	1	—	—	—	—	—	97	40	80	—	—
Ulcer of duodenum	1	—	—	—	1	—	—	—	—	—	—	—	32	—	—	—	—
Appendicitis	1	—	—	1	—	—	—	—	—	—	—	38	—	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	1	—	—	—	—	1	—	—	—	—	—	—	—	40	—	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	235	327
Acute nephritis	1	—	—	—	—	1	—	—	—	—	—	—	—	40	—	—	—
Chronic nephritis	10	—	—	2	2	1	2	2	1	—	—	77	65	40	160	469	327
Diseases of the prostate	1	—	—	—	—	—	1	—	—	—	—	—	—	—	80	—	—
Other genito-urinary diseases	2	—	—	—	—	—	1	1	—	—	—	—	—	—	80	235	—
Old age	19	—	—	—	—	—	—	—	19	—	—	—	—	—	—	—	6209
Suicide	4	—	—	1	—	1	2	—	—	—	—	38	—	40	160	—	—
Accident	6	1	—	—	—	1	4	—	—	50	—	—	—	40	320	—	—
Other causes	11	—	—	1	—	4	3	1	2	—	—	—	—	—	—	—	—
All causes	263	2	3	16	30	41	61	30	80	100	249	614	972	1659	4876	7042	26144
Years of life (Census population × 3)	13,344	1,992	1,206	2,604	3,087	2,472	1,251	426	306								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	40	71	154	152	144	190	141	192								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,601
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	159

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* This group comprises Rag Grinders, Hecklers and Willowers and their Overlookers employed in the manufacture of Woollens, Worsteds, Mungo, Shoddy and Felt (Ind. Code No. 270–5).

OCCUPATIONAL GROUP 54.—WOOL AND WORSTED CARD, COMB, OR FRAME (NOT SPINNING FRAME) TENTERS (Occ. 353, 363. Ind. 270–5).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	10	—	—	1	1	3	2	1	2	—	—	20	19	54	48	75	205
Respiratory tuberculosis	64	4	5	10	13	17	11	3	1	183	156	205	246	305	263	226	103
Other tuberculosis	9	1	1	—	3	2	1	1	—	46	31	—	57	36	24	75	—
Syphilis, etc.	4	—	—	—	2	2	—	—	—	—	—	—	38	36	—	—	—
Syphilis	2	—	—	—	1	1	—	—	—	—	—	—	19	18	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	2	—	—	—	1	1	—	—	—	—	—	—	19	18	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	58	—	—	2	3	6	18	11	18	—	—	41	57	108	430	828	1846
Skin	3	—	—	—	—	—	1	—	2	—	—	—	—	—	24	—	205
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	—	1	—	1	—	—	—	—	—	24	—	103
Œsophagus	7	—	—	—	1	1	3	—	2	—	—	—	19	18	72	—	205
Stomach	17	—	—	—	—	3	5	4	5	—	—	—	—	54	119	301	513
Other sites	29	—	—	2	2	2	8	7	8	—	—	41	38	36	191	527	821
Chronic rheumatism, etc., Gout	4	—	—	—	—	1	2	1	—	—	—	—	—	18	48	75	—
Diabetes	2	—	—	—	—	—	1	1	—	—	—	—	—	—	24	75	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	41	—	—	—	—	4	13	9	15	—	—	—	—	72	310	677	1538
Other dis. of the nervous system	12	—	2	3	—	3	2	2	—	—	62	61	—	54	48	150	—
Valvular disease of heart	33	—	—	1	2	5	13	7	5	—	—	20	38	90	310	527	513
Other heart disease	36	—	1	—	2	4	9	10	10	—	31	—	38	72	215	752	1026
Arterio-sclerosis	38	—	—	—	—	2	9	4	23	—	—	—	—	36	215	301	2359
Other dis. of circulatory system	3	—	—	—	—	—	2	—	1	—	—	—	—	—	48	—	103
Bronchitis	49	—	—	—	3	4	21	7	14	—	—	—	57	72	501	527	1436
Pneumonia	37	1	—	1	10	6	10	6	3	46	—	20	189	108	239	451	308
Chronic interstitial pneumonia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	75	—
Other dis. of respiratory system	8	—	—	—	2	1	1	—	4	—	—	—	38	18	24	—	410
Ulcer of stomach	2	—	—	—	—	2	—	—	—	—	—	—	—	36	—	—	—
Ulcer of duodenum	5	—	—	1	1	1	1	1	—	—	—	20	19	18	24	75	—
Appendicitis	3	—	1	—	1	—	—	1	—	—	31	—	19	—	—	75	—
Hernia	5	—	—	—	—	—	2	1	2	—	—	—	—	—	48	75	205
Intestinal obstruction	5	—	1	—	1	1	2	—	—	—	31	—	19	18	48	—	—
Cirrhosis of liver	2	—	—	—	—	1	—	—	1	—	—	—	—	18	—	—	103
Other dis. of digestive system	8	—	—	1	1	2	2	—	2	—	—	20	19	36	48	—	205
Acute nephritis	3	—	—	—	—	1	1	—	1	—	—	—	—	18	24	—	103
Chronic nephritis	19	—	—	—	—	8	8	2	1	—	—	—	—	144	191	150	103
Diseases of the prostate	8	—	—	—	—	1	1	2	4	—	—	—	—	18	24	150	410
Other genito-urinary diseases	5	—	—	—	—	2	1	—	2	—	—	—	—	36	24	—	205
Old age	37	—	—	—	—	—	—	1	36	—	—	—	—	—	—	75	3692
Suicide	9	—	—	2	—	4	1	—	2	—	—	41	—	72	24	—	205
Accident	18	—	—	3	3	4	3	1	4	—	—	61	57	72	72	75	410
Other causes	28	—	1	2	2	3	8	6	6	—	—	—	—	—	—	—	—
All causes	566	6	12	27	50	90	145	79	157	274	375	553	945	1616	3462	5944	16103
Years of life (Census population × 3)	27,624	2,190	3,201	4,881	5,289	5,571	4,188	1,329	975								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	111	107	139	148	140	135	119	119								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,373
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 137

OCCUPATIONAL GROUP 55.—COTTON STRIPPERS AND GRINDERS AND CARD ROOM JOBBERS (Occ. 364. Ind. 260–9).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	10	—	—	2	1	2	4	—	1	—	—	39	25	74	278	—	606
Respiratory tuberculosis	18	1	1	1	3	5	5	1	1	132	55	20	75	184	347	285	606
Other tuberculosis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	69	—	—
Syphilis, etc.	3	—	—	—	1	1	1	—	—	—	—	—	25	37	69	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	1	—	—	—	—	—	—	—	25	—	—	—	—
General paralysis of insane	1	—	—	—	—	1	—	—	—	—	—	—	—	37	—	—	—
Aneurysm	1	—	—	—	—	—	1	—	—	—	—	—	—	—	69	—	—
Cancer, all sites	18	—	—	—	2	4	6	6	—	—	—	—	50	147	417	1709	—
Skin	1	—	—	—	—	1	—	—	—	—	—	—	—	37	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	2	—	—	—	—	1	1	—	—	—	—	—	—	37	69	—	—
Stomach	3	—	—	—	1	—	—	2	—	—	—	—	25	—	—	570	—
Other sites	12	—	—	—	1	2	5	4	—	—	—	—	25	74	347	1140	—
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	606
Diabetes	3	—	—	1	—	1	—	—	1	—	—	20	—	37	—	—	606
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	12	—	—	—	—	2	4	2	4	—	—	—	—	74	278	570	2424
Other dis. of the nervous system	3	—	—	1	—	—	1	—	1	—	—	20	—	—	69	—	606
Valvular disease of heart	24	—	—	2	2	5	6	4	5	—	—	39	50	184	417	1140	3030
Other heart disease	18	1	—	1	—	4	4	7	1	132	—	20	—	147	278	1994	606
Arterio-sclerosis	7	—	—	—	—	1	1	2	3	—	—	—	—	37	69	570	1818
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	51	—	—	1	2	8	18	9	13	—	—	20	50	294	1250	2564	7879
Pneumonia	21	—	1	3	4	6	3	1	3	—	55	59	100	221	208	285	1818
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	3	—	—	—	—	—	2	—	1	—	—	—	—	—	139	—	606
Ulcer of stomach	3	—	—	1	1	1	—	—	—	—	—	20	25	37	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hernia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	69	—	—
Intestinal obstruction	2	—	—	—	—	—	1	—	1	—	—	—	—	—	69	—	606
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	4	—	—	—	—	1	—	3	—	—	—	—	—	37	—	855	—
Acute nephritis	3	—	—	1	1	—	1	—	—	—	—	20	25	—	69	—	—
Chronic nephritis	13	—	—	—	1	2	3	3	4	—	—	—	25	74	208	855	2424
Diseases of the prostate	4	—	—	—	—	—	—	1	3	—	—	—	—	—	—	285	1818
Other genito-urinary diseases	2	—	—	—	—	—	1	1	—	—	—	—	—	—	69	285	—
Old age	9	—	—	—	—	—	1	2	6	—	—	—	—	—	69	570	3636
Suicide	2	—	—	—	—	1	1	—	—	—	—	—	—	37	69	—	—
Accident	8	1	1	—	3	—	2	—	1	132	55	—	75	—	139	—	606
Other causes	9	—	1	—	2	3	2	1	—	—	—	—	—	—	—	—	—
All causes	253	3	4	14	23	47	69	43	50	397	220	276	575	1727	4792	12251	30303
Years of life (Census population × 3)	16,326	756	1,818	5,076	3,999	2,721	1,440	351	165								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	161	63	69	90	149	186	245	223								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,396
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 131

OCCUPATIONAL GROUP 56.—COTTON SPINNERS AND PIECERS (Occ. 354, 365. Ind. 260-9).

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up	
60	5	8	4	8	8	6	6	15	18	43	14	35	44	54	252	693	Influenza
181	22	27	26	37	32	31	4	2	80	144	94	160	176	278	168	92	Respiratory tuberculosis
27	10	8	3	1	3	2	—	—	37	43	11	4	17	18	—	—	Other tuberculosis
15	—	—	1	3	5	4	—	2	—	—	4	13	28	36	—	92	Syphilis, etc.
2	—	—	—	—	1	—	—	1	—	—	—	—	6	—	—	46	Syphilis
3	—	—	—	—	1	1	—	1	—	—	—	—	6	9	—	46	Tabes dorsalis
8	—	—	1	2	3	2	—	—	—	—	4	9	17	18	—	—	General paralysis of insane
2	—	—	—	1	—	1	—	—	—	—	—	4	—	9	—	—	Aneurysm
231	3	—	2	15	46	98	27	40	11	—	7	65	253	879	1135	1849	Cancer, all sites
53	—	—	—	4	12	21	5	11	—	—	—	17	66	188	210	509	Skin
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip
7	—	—	—	—	3	1	1	2	—	—	—	—	17	9	42	92	Tongue
8	—	—	—	—	2	5	—	1	—	—	—	—	11	45	—	46	Œsophagus
46	—	—	1	3	11	21	6	4	—	—	4	13	61	188	252	185	Stomach
117	3	—	1	8	18	50	15	22	11	—	4	35	99	448	631	1017	Other sites
7	—	—	—	—	1	2	1	3	—	—	—	—	6	18	42	139	Chronic rheumatism, etc., Gout
21	3	1	—	2	2	4	6	3	11	5	—	9	11	36	252	139	Diabetes
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism
134	—	—	3	4	10	32	23	62	—	—	11	17	55	287	967	2866	Cerebral hæmorrhage, etc.
56	4	4	4	5	8	17	6	8	15	21	14	22	44	152	252	370	Other dis. of the nervous system
116	2	6	17	8	15	32	18	18	7	32	62	35	83	287	757	832	Valvular disease of heart
122	2	2	6	12	12	35	15	38	7	11	22	52	66	309	631	1757	Other heart disease
67	—	—	—	—	5	14	11	37	—	—	—	—	28	126	462	1711	Arterio-sclerosis
5	—	—	—	3	—	1	—	1	—	—	—	13	—	9	—	46	Other dis. of circulatory system
154	—	3	2	2	12	36	26	73	—	16	7	9	66	323	1093	3375	Bronchitis
109	9	5	10	20	20	27	8	10	33	27	36	87	110	242	336	462	Pneumonia
2	—	—	—	—	1	—	1	—	—	—	—	—	6	—	42	—	Chronic interstitial pneumonia
26	—	1	—	3	7	5	2	8	—	5	—	13	39	45	84	370	Other dis. of respiratory system
9	—	—	2	2	2	3	—	—	—	—	7	9	11	27	—	—	Ulcer of stomach
5	—	1	—	—	2	1	1	—	—	5	—	—	11	9	42	—	Ulcer of duodenum
12	1	2	2	2	2	2	—	1	4	11	7	9	11	18	—	46	Appendicitis
6	—	—	—	—	1	3	1	1	—	—	—	—	6	27	42	46	Hernia
4	1	—	—	—	—	3	—	—	4	—	—	—	—	27	—	—	Intestinal obstruction
9	—	—	1	—	2	3	1	2	—	—	4	—	11	27	42	92	Cirrhosis of liver
37	1	1	1	—	8	15	3	8	4	5	4	—	44	134	126	370	Other dis. of digestive system
8	2	1	3	1	—	1	—	—	7	5	11	4	—	9	—	—	Acute nephritis
62	1	1	5	6	10	19	11	9	4	5	18	26	55	170	462	416	Chronic nephritis
20	—	—	—	—	—	5	5	10	—	—	—	—	—	45	210	462	Diseases of the prostate
14	—	—	2	2	2	3	—	5	—	—	7	9	11	27	—	231	Other genito-urinary diseases
109	—	—	—	—	1	4	6	98	—	—	—	—	6	36	252	4531	Old age
31	—	1	4	4	13	4	4	1	—	5	14	17	72	36	168	46	Suicide
30	2	4	3	1	4	6	3	7	7	21	11	4	22	54	126	324	Accident
71	9	5	7	10	9	11	10	10	—	—	—	—	—	—	—	—	Other causes
1,760	77	81	108	151	243	429	199	472	281	431	391	655	1337	3846	8365	21822	All causes
130,713	27,378	18,801	27,603	23,061	18,174	11,154	2,379	2,163									Years of life (Census population × 3)
—	114	122	98	103	116	150	168	161									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,248

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 123

OCCUPATIONAL GROUP 57.—WOOL AND WORSTED SPINNERS AND PIECERS (Occ. 354, 365. Ind. 270–5).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	11	3	2	1	—	—	2	2	1	34	44	17	—	—	82	291	144
Respiratory tuberculosis	44	11	14	5	8	2	2	2	—	123	306	87	183	58	82	291	—
Other tuberculosis	5	1	1	3	—	—	—	—	—	11	22	52	—	—	—	—	—
Syphilis, etc.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	37	—	—	1	2	7	16	4	7	—	—	17	46	202	659	582	1006
Skin	2	—	—	—	—	—	1	—	1	—	—	—	—	—	41	—	144
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	144
Stomach	9	—	—	—	—	3	4	1	1	—	—	—	—	87	165	146	144
Other sites	25	—	—	1	2	4	11	3	4	—	—	17	46	115	453	437	575
Chronic rheumatism, etc., Gout	3	—	—	—	—	—	1	1	1	—	—	—	—	—	41	146	144
Diabetes	5	—	—	1	—	—	2	1	1	—	—	17	—	—	82	146	144
Alcoholism	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	146	—
Cerebral hæmorrhage, etc.	29	—	—	—	—	2	8	2	17	—	—	—	—	58	330	291	2443
Other dis. of the nervous system	18	4	—	—	1	5	3	2	3	45	—	—	23	144	124	291	431
Valvular disease of heart	20	—	2	1	3	3	4	6	1	—	44	17	69	87	165	873	144
Other heart disease	26	1	—	—	1	4	8	4	8	11	—	—	23	115	330	582	1149
Arterio-sclerosis	17	—	—	—	—	1	—	2	14	—	—	—	—	29	—	291	2011
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	21	—	—	—	—	1	3	2	15	—	—	—	—	29	124	291	2155
Pneumonia	25	2	3	2	1	7	2	3	5	22	66	35	23	202	82	437	718
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	4	—	1	1	—	—	—	1	1	—	22	17	—	—	—	146	144
Ulcer of stomach	2	—	—	—	1	—	1	—	—	—	—	—	23	—	41	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	8	2	1	—	1	2	—	1	1	22	22	—	23	58	—	146	144
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	146	—
Cirrhosis of liver	5	—	—	—	1	1	2	—	1	—	—	—	23	29	82	—	144
Other dis. of digestive system	4	1	—	—	—	1	1	1	—	11	—	—	—	29	41	146	—
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	23	1	—	2	2	5	7	2	4	11	—	35	46	144	289	291	575
Diseases of the prostate	7	—	—	—	—	—	1	—	6	—	—	—	—	—	41	—	862
Other genito-urinary diseases	6	—	—	—	—	1	3	—	2	—	—	—	—	29	124	—	287
Old age	17	—	—	—	—	—	—	1	16	—	—	—	—	—	—	146	2299
Suicide	5	—	—	—	1	—	2	1	1	—	—	—	23	—	82	146	144
Accident	9	2	1	3	1	—	2	—	—	22	22	52	23	—	82	—	—
Other causes	15	2	—	—	1	4	4	2	2	—	—	—	—	—	—	—	—
All causes	368	30	25	20	24	46	74	42	107	336	547	350	550	1326	3049	6114	15374
Years of life (Census population × 3)	30,867	8,931	4,572	5,721	4,365	3,468	2,427	687	696								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	136	155	88	86	115	119	123	113								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,103

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 112

OCCUPATIONAL GROUP 58.—COTTON-DOUBLERS, WINDERS, WARPERS, BEAMERS, ETC. (Occ. 355, 366–8. Ind. 260–9).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	23	—	—	4	2	4	4	3	6	—	—	43	26	60	100	280	976
Respiratory tuberculosis ..	47	3	10	9	9	9	5	2	—	111	214	96	118	134	125	187	—
Other tuberculosis	15	1	3	5	2	4	—	—	—	37	64	53	26	60	—	—	—
Syphilis, etc.	5	—	1	1	1	1	—	1	—	—	21	11	13	15	—	93	—
Syphilis	2	—	1	—	1	—	—	—	—	—	21	—	13	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	93	—
General paralysis of insane ..	2	—	—	1	—	1	—	—	—	—	—	11	—	15	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	65	—	—	1	6	13	24	10	11	—	—	11	79	194	598	934	1789
Skin	4	—	—	—	—	1	2	1	—	—	—	—	—	15	50	93	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	1	—	—	—	—	—	—	—	15	—	—	—
Œsophagus	3	—	—	—	1	1	1	—	—	—	—	—	13	15	25	—	—
Stomach	17	—	—	1	1	1	8	2	4	—	—	11	13	15	199	187	650
Other sites	40	—	—	—	4	9	13	7	7	—	—	—	53	134	324	654	1138
Chronic rheumatism, etc., Gout	3	—	—	—	1	—	—	1	1	—	—	—	13	—	—	93	163
Diabetes	5	—	—	—	2	—	—	2	1	—	—	—	26	—	—	187	163
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	48	—	—	—	—	4	12	8	24	—	—	—	—	60	298	747	3902
Other dis. of the nervous system	19	—	—	—	4	5	6	3	1	—	—	—	53	75	149	280	163
Valvular disease of heart ..	45	1	—	3	4	7	12	11	7	37	—	32	53	104	298	1027	1138
Other heart disease	48	—	3	4	3	8	11	5	14	—	64	43	39	119	274	467	2276
Arterio-sclerosis	19	—	—	—	—	1	5	4	9	—	—	—	—	15	125	373	1463
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	53	—	—	2	3	9	13	12	14	—	—	22	39	134	324	1120	2276
Pneumonia	45	1	1	6	6	7	15	6	3	37	21	64	79	104	374	560	488
Chronic interstitial pneumonia	1	—	—	—	—	1	—	—	—	—	—	—	—	15	—	—	—
Other dis. of respiratory system	5	1	—	1	2	—	1	—	—	37	—	11	26	—	25	—	—
Ulcer of stomach	4	—	—	1	—	1	2	—	—	—	—	11	—	15	50	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hernia	4	—	—	—	—	1	—	1	2	—	—	—	—	15	—	93	325
Intestinal obstruction	2	—	—	—	—	2	—	—	—	—	—	—	—	30	—	—	—
Cirrhosis of liver	3	—	—	—	—	3	—	—	—	—	—	—	—	45	—	—	—
Other dis. of digestive system ..	11	—	—	—	1	3	3	2	2	—	—	—	13	45	75	187	325
Acute nephritis	4	—	—	—	1	3	—	—	—	—	—	—	13	45	—	—	—
Chronic nephritis..	15	—	—	—	2	3	6	3	1	—	—	—	26	45	149	280	163
Diseases of the prostate ..	5	—	—	—	—	—	—	1	4	—	—	—	—	—	—	93	650
Other genito-urinary diseases ..	5	—	1	—	—	—	2	1	1	—	21	—	—	—	50	93	163
Old age	31	—	—	—	—	—	1	2	28	—	—	—	—	—	25	187	4553
Suicide	12	—	—	1	2	2	5	1	1	—	—	11	26	30	125	93	163
Accident	8	—	—	1	—	3	2	—	2	—	—	11	—	45	50	—	325
Other causes	30	1	2	1	5	3	6	6	6	—	—	—	—	—	—	—	—
All causes	580	8	21	40	56	97	135	85	138	295	449	428	735	1446	3363	7937	22439
Years of life (Census population × 3)	36,762	2,709	4,677	9,351	7,617	6,708	4,014	1,071	615								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	119	128	107	115	125	131	159	165								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,236
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	123

OCCUPATIONAL GROUP 59.—WOOL AND WORSTED—DOUBLERS, WINDERS, WARPERS, BEAMERS, ETC. (Occ. 355, 366–8. Ind. 270–5).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	3	—	—	1	1	—	—	—	1	—	—	34	41	—	—	—	300
Respiratory tuberculosis ..	9	1	2	1	3	1	1	—	—	57	153	34	123	33	62	—	—
Other tuberculosis	3	—	2	1	—	—	—	—	—	—	153	34	—	—	—	—	—
Syphilis, etc.	4	—	—	—	1	2	1	—	—	—	—	—	41	66	62	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	2	—	—	—	—	1	1	—	—	—	—	—	—	33	62	—	—
General paralysis of insane ..	2	—	—	—	1	1	—	—	—	—	—	—	41	33	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	24	—	1	1	—	4	9	4	5	—	77	34	—	132	557	803	1502
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	300
Stomach	3	—	—	—	—	1	—	—	2	—	—	—	—	33	—	—	601
Other sites	20	—	1	1	—	3	9	4	2	—	77	34	—	99	557	803	601
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	3	—	—	—	—	2	1	—	—	—	—	—	—	66	62	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	11	—	1	—	—	2	4	2	2	—	77	—	—	66	247	402	601
Other dis. of the nervous system	3	—	—	1	—	1	1	—	—	—	—	34	—	33	62	—	—
Valvular disease of heart ..	13	1	—	4	1	3	2	1	1	57	—	135	41	99	124	201	300
Other heart disease	17	—	—	1	3	4	3	3	3	—	—	34	123	132	186	602	901
Arterio-sclerosis	8	—	—	—	—	1	4	1	2	—	—	—	—	33	247	201	601
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	18	—	—	—	1	—	3	3	11	—	—	—	41	—	186	602	3303
Pneumonia	9	—	—	2	—	3	1	—	3	—	—	68	—	99	62	—	901
Chronic interstitial pneumonia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	300
Other dis. of respiratory system	4	—	—	—	—	—	3	1	—	—	—	—	—	—	186	201	—
Ulcer of stomach	2	—	—	—	—	1	—	1	—	—	—	—	—	33	—	201	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	3	—	—	2	—	1	—	—	—	—	—	68	—	33	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	2	—	—	—	—	—	1	1	—	—	—	—	—	—	62	201	—
Cirrhosis of liver	1	—	—	—	—	1	—	—	—	—	—	—	—	33	—	—	—
Other dis. of digestive system ..	3	—	—	—	—	—	1	—	2	—	—	—	—	—	62	—	601
Acute nephritis	1	—	—	—	1	—	—	—	—	—	—	—	41	—	—	—	—
Chronic nephritis..	10	—	—	—	—	3	3	1	3	—	—	—	—	99	186	201	901
Diseases of the prostate ..	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	300
Other genito-urinary diseases ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	9	—	—	—	—	—	—	—	9	—	—	—	—	—	—	—	2703
Suicide	4	—	—	1	—	—	3	—	—	—	—	34	—	—	186	—	—
Accident	4	1	—	—	—	—	1	1	1	57	—	—	—	—	62	201	300
Other causes	6	—	—	—	—	1	1	1	3	—	—	—	—	—	—	—	—
All causes	176	3	6	15	11	30	43	20	48	170	460	508	450	990	2659	4016	14414
Years of life (Census population × 3)	13,944	1,761	1,305	2,955	2,445	3,030	1,617	498	333								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	69	131	127	70	86	103	80	106								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	970
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	95

OCCUPATIONAL GROUP 60.—COTTON WEAVERS (Occ. 356, 370. Ind. 260–9).*

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	72	2	2	5	7	12	19	10	15	12	9	14	23	42	118	209	324
Respiratory tuberculosis ..	158	9	21	25	30	38	29	4	2	55	98	71	97	132	180	84	43
Other tuberculosis	23	2	3	8	5	3	2	—	—	12	14	23	16	10	12	—	—
Syphilis, etc.	21	—	—	—	4	8	7	1	1	—	—	—	13	28	43	21	22
Syphilis	4	—	—	—	2	—	2	—	—	—	—	—	6	—	12	—	—
Tabes dorsalis	10	—	—	—	1	3	5	—	1	—	—	—	3	10	31	—	22
General paralysis of insane	5	—	—	—	1	3	—	1	—	—	—	—	3	10	—	21	—
Aneurysm	2	—	—	—	—	2	—	—	—	—	—	—	—	7	—	—	—
Cancer, all sites	250	1	2	4	8	42	86	49	58	6	9	11	26	146	532	1024	1252
Skin	6	—	—	—	—	1	2	2	1	—	—	—	—	3	12	42	22
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	10	—	—	—	—	1	6	2	1	—	—	—	—	3	37	42	22
Œsophagus	12	—	—	—	—	2	6	1	3	—	—	—	—	7	37	21	65
Stomach	72	—	—	1	1	14	24	18	14	—	—	3	3	49	149	376	302
Other sites	150	1	2	3	7	24	48	26	39	6	9	8	23	84	297	543	842
Chronic rheumatism, etc., Gout	20	—	—	1	1	4	3	5	6	—	—	3	3	14	19	104	130
Diabetes	22	2	4	1	3	3	6	3	—	12	19	3	10	10	37	63	—
Alcoholism	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	21	—
Cerebral hæmorrhage, etc. ..	218	—	—	3	2	18	59	49	87	—	—	8	6	63	365	1024	1878
Other dis. of the nervous system	66	3	5	4	7	13	12	8	14	18	23	11	23	45	74	167	302
Valvular disease of heart ..	175	4	2	13	16	24	47	22	47	25	9	37	52	84	291	460	1015
Other heart disease	185	3	3	7	7	16	48	26	75	18	14	20	23	56	297	543	1619
Arterio-sclerosis	114	—	—	—	—	5	26	25	58	—	—	—	—	17	161	522	1252
Other dis. of circulatory system	2	—	—	—	—	—	1	—	1	—	—	—	—	—	6	—	22
Bronchitis..	261	—	3	5	8	20	56	40	129	—	14	14	26	70	347	836	2785
Pneumonia	124	7	9	11	15	19	28	13	22	43	42	31	49	66	173	272	475
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	26	1	1	3	1	2	6	4	8	6	5	8	3	7	37	84	173
Ulcer of stomach	15	—	2	4	1	2	4	2	—	—	9	11	3	7	25	42	—
Ulcer of duodenum	7	—	—	—	2	2	2	1	—	—	—	—	6	7	12	21	—
Appendicitis	18	3	5	1	2	4	2	1	—	18	23	3	6	14	12	21	—
Hernia	10	—	—	—	—	4	4	1	1	—	—	—	—	14	25	21	22
Intestinal obstruction	15	—	—	1	—	5	1	2	6	—	—	3	—	17	6	42	130
Cirrhosis of liver	5	—	—	—	1	2	—	1	1	—	—	—	3	7	—	21	22
Other dis. of digestive system ..	47	1	—	—	5	9	15	7	10	6	—	—	16	31	93	146	216
Acute nephritis	6	—	—	3	—	1	2	—	—	—	—	8	—	3	12	—	—
Chronic nephritis	68	—	2	8	7	17	16	10	8	—	9	23	23	59	99	209	173
Diseases of the prostate ..	26	—	—	—	—	—	8	5	13	—	—	—	—	—	50	104	281
Other genito-urinary diseases ..	14	—	—	1	—	2	3	3	5	—	—	3	—	7	19	63	108
Old age	161	—	—	—	—	—	4	16	141	—	—	—	—	—	25	334	3044
Suicide	50	1	1	2	7	12	16	5	6	6	5	6	23	42	99	104	130
Accident	26	1	3	1	4	1	4	3	9	6	14	3	13	3	25	63	194
Other causes	116	1	5	14	12	21	27	21	15	—	—	—	—	—	—	—	—
All causes	2,322	41	73	125	155	309	543	338	738	252	340	353	502	1077	3361	7064	15933
Years of life (Census population × 3)	158,340	16,278	21,462	35,457	30,882	28,689	16,155	4,785	4,632								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	102	97	88	79	93	131	142	117								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,048
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	104

OCCUPATIONAL GROUP 61.—WOOLLEN AND WORSTED WEAVERS (Occ. 356, 370. Ind. 270–5).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up
Influenza	8	—	—	1	1	—	—	2	4	—	—	16	21	—	—	102	323
Respiratory tuberculosis ..	39	—	8	4	14	9	2	—	2	—	311	66	298	157	40	—	161
Other tuberculosis	10	—	1	1	2	2	2	1	1	—	39	16	43	35	40	51	81
Syphilis, etc.	3	—	—	—	—	1	1	—	1	—	—	—	—	17	20	—	81
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	3	—	—	—	—	1	1	—	1	—	—	—	—	17	20	—	81
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	92	—	1	—	1	6	31	20	33	—	39	—	21	105	617	1018	2663
Skin	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	51	161
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	—	1	—	—	—	—	—	—	—	20	—	—
Œsophagus	3	—	—	—	—	—	1	1	1	—	—	—	—	—	20	51	81
Stomach	23	—	—	—	—	3	6	5	9	—	—	—	—	52	119	254	726
Other sites	62	—	1	—	1	3	23	13	21	—	39	—	21	52	458	662	1695
Chronic rheumatism, etc., Gout	3	—	—	—	1	1	—	1	—	—	—	—	21	17	—	51	—
Diabetes	19	—	—	1	2	—	5	6	5	—	—	16	43	—	100	305	404
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	64	—	—	—	—	2	11	14	37	—	—	—	—	35	219	712	2986
Other dis. of the nervous system	20	—	—	3	1	2	5	1	8	—	—	49	21	35	100	51	646
Valvular disease of heart ..	57	—	—	4	4	6	13	11	19	—	—	66	85	105	259	560	1533
Other heart disease	70	—	—	2	—	2	19	19	28	—	—	33	—	35	378	967	2260
Arterio-sclerosis	66	—	—	—	—	—	15	16	35	—	—	—	—	—	299	814	2825
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis..	51	—	—	—	1	3	8	11	28	—	—	—	21	52	159	560	2260
Pneumonia	23	—	—	1	—	5	5	8	4	—	—	16	—	87	100	407	323
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	9	—	—	—	1	2	2	3	1	—	—	—	21	35	40	153	81
Ulcer of stomach	6	—	—	—	—	1	3	1	1	—	—	—	—	17	60	51	81
Ulcer of duodenum	3	—	—	—	—	1	1	—	1	—	—	—	—	17	20	—	81
Appendicitis	5	2	—	—	1	—	1	1	—	135	—	—	21	—	20	51	—
Hernia	2	—	—	—	—	1	—	1	—	—	—	—	—	17	—	51	—
Intestinal obstruction	4	—	—	—	—	—	2	1	1	—	—	—	—	—	40	51	81
Cirrhosis of liver	4	—	—	—	—	—	3	1	—	—	—	—	—	—	60	51	—
Other dis. of digestive system ..	20	—	—	—	1	4	4	4	7	—	—	—	21	70	80	204	565
Acute nephritis	1	—	—	—	—	1	—	—	—	—	—	—	—	17	—	—	—
Chronic nephritis	26	—	—	3	—	3	9	4	7	—	—	49	—	52	179	204	565
Diseases of the prostate ..	11	—	—	—	—	—	2	1	8	—	—	—	—	—	40	51	646
Other genito-urinary diseases ..	9	—	—	—	—	1	3	1	4	—	—	—	—	17	60	51	323
Old age	47	—	—	—	—	—	—	4	43	—	—	—	—	—	—	204	3471
Suicide	10	—	—	—	—	1	1	3	5	—	—	—	—	17	20	153	404
Accident	11	—	—	1	2	2	3	—	3	—	—	16	43	35	60	—	242
Other causes	23	1	1	1	3	4	4	5	4	—	—	—	—	—	—	—	—
All causes	716	3	11	22	35	60	155	140	290	202	428	362	745	1048	3086	7125	23406
Years of life (Census population × 3)	28,782	1,485	2,571	6,072	4,701	5,727	5,022	1,965	1,239								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	82	122	91	117	91	120	143	172								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,082
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	110

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* For an analysis of the mortality of these workers in different parts of the country *see* page 115.

OCCUPATIONAL GROUP 62.—WEAVERS OF OTHER TEXTILES (356, part; 370, part).*

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
9	1	—	—	—	1	2	—	5	65	—	—	—	25	60	—	436	Influenza
31	4	2	7	5	4	5	2	2	259	94	176	140	98	150	155	175	Respiratory tuberculosis
4	—	2	—	—	2	—	—	—	—	94	—	—	49	—	—	—	Other tuberculosis
1	—	—	—	1	—	—	—	—	—	—	—	28	—	—	—	—	Syphilis, etc.
1	—	—	—	1	—	—	—	—	—	—	—	28	—	—	—	—	Syphilis
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Tabes dorsalis
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	General paralysis of insane
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Aneurysm
54	—	—	—	—	8	12	14	20	—	—	—	—	197	360	1088	1745	Cancer, all sites
2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	175	Skin
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip
2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	175	Tongue
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	87	Œsophagus
9	—	—	—	—	1	5	3	—	—	—	—	—	25	150	233	—	Stomach
40	—	—	—	—	7	7	11	15	—	—	—	—	172	210	855	1309	Other sites
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic rheumatism, etc., Gout
2	—	—	—	—	—	2	—	—	—	—	—	—	—	60	—	—	Diabetes
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism
47	—	—	—	1	3	9	6	28	—	—	—	28	74	270	466	2443	Cerebral hæmorrhage, etc.
16	—	—	1	—	3	6	1	5	—	—	25	—	74	180	78	436	Other dis. of the nervous system
27	1	1	—	1	4	6	6	8	65	47	—	28	98	180	466	698	Valvular disease of heart
49	—	—	2	5	2	7	5	28	—	—	50	140	49	210	389	2443	Other heart disease
34	—	—	—	—	—	3	3	28	—	—	—	—	—	90	233	2443	Arterio-sclerosis
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Other dis. of circulatory system
55	—	—	—	—	1	5	7	42	—	—	—	—	25	150	544	3665	Bronchitis
27	—	—	1	1	4	8	2	11	—	—	25	28	98	240	155	960	Pneumonia
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	87	Chronic interstitial pneumonia
7	—	—	—	—	2	—	2	3	—	—	—	—	49	—	155	262	Other dis. of respiratory system
1	—	—	—	—	1	—	—	—	—	—	—	—	25	—	—	—	Ulcer of stomach
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Ulcer of duodenum
1	—	—	—	1	—	—	—	—	—	—	—	28	—	—	—	—	Appendicitis
3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	78	175	Hernia
4	—	—	—	1	—	2	—	1	—	—	—	28	—	60	—	87	Intestinal obstruction
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	78	—	Cirrhosis of liver
8	—	—	—	1	—	1	1	5	—	—	—	28	—	30	78	436	Other dis. of digestive system
2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	78	87	Acute nephritis
17	—	—	—	—	4	6	3	4	—	—	—	—	98	180	233	349	Chronic nephritis
6	—	—	—	—	—	—	—	6	—	—	—	—	—	—	—	524	Diseases of the prostate
1	—	—	1	—	—	—	—	—	—	—	25	—	—	—	—	—	Other genito-urinary diseases
78	—	—	—	—	—	1	1	76	—	—	—	—	—	30	78	6632	Old age
6	—	—	—	1	—	1	2	2	—	—	—	28	—	30	155	175	Suicide
9	—	—	—	—	—	3	—	6	—	—	—	—	—	90	—	524	Accident
16	—	—	1	1	4	2	4	4	—	—	—	—	—	—	—	—	Other causes
517	6	5	13	19	43	81	62	288	388	235	327	531	1059	2428	4817	25131	All causes
21,063	1,545	2,130	3,981	3,576	4,062	3,336	1,287	1,146									Years of life (Census population × 3)
—	157	67	82	83	92	94	97	185									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 888

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 90

OCCUPATIONAL GROUP 63.—HOSIERY FRAME TENTERS AND MACHINE KNITTERS (374).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	11	—	1	—	1	—	2	2	5	—	42	—	38	—	65	172	370
Respiratory tuberculosis	23	5	6	1	3	4	3	1	—	203	253	28	113	126	97	86	—
Other tuberculosis	7	1	3	2	—	—	1	—	—	41	127	56	—	—	32	—	—
Syphilis, etc.	3	—	—	—	1	1	1	—	—	—	—	—	38	31	32	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	2	—	—	—	1	—	1	—	—	—	—	—	38	—	32	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	1	—	—	—	—	1	—	—	—	—	—	—	—	31	—	—	—
Cancer, all sites	33	—	—	—	3	4	12	6	8	—	—	—	113	126	389	515	593
Skin	2	—	—	—	1	—	—	—	1	—	—	—	38	—	—	—	74
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	—	1	1	—	—	—	—	—	—	32	86	—
Œsophagus	3	—	—	—	—	2	—	—	1	—	—	—	—	63	—	—	74
Stomach	9	—	—	—	2	1	5	—	1	—	—	—	76	31	162	—	74
Other sites	17	—	—	—	—	1	6	5	5	—	—	—	—	31	195	430	370
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	1	—	1	—	—	—	—	—	32	—	74
Diabetes	2	—	—	—	—	1	1	—	—	—	—	—	—	31	32	—	—
Alcoholism	1	—	—	—	—	1	—	—	—	—	—	—	—	31	—	—	—
Cerebral hæmorrhage, etc.	36	—	—	—	—	—	10	5	21	—	—	—	—	—	324	430	1556
Other dis. of the nervous system	10	—	—	1	—	1	3	2	3	—	—	28	—	31	97	172	222
Valvular disease of heart	18	—	—	2	—	2	2	2	10	—	—	56	—	63	65	172	741
Other heart disease	39	1	—	1	1	6	6	2	22	41	—	28	38	189	195	172	1630
Arterio-sclerosis	15	—	—	—	—	—	2	2	11	—	—	—	—	—	65	172	815
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	42	—	—	—	—	2	4	3	33	—	—	—	—	63	130	258	2444
Pneumonia	14	—	—	—	1	1	7	3	2	—	—	—	38	31	227	258	148
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	6	—	—	—	—	1	4	—	1	—	—	—	—	31	130	—	74
Ulcer of stomach	2	1	—	—	—	—	1	—	—	41	—	—	—	—	32	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	1	1	—	—	—	—	—	—	—	41	—	—	—	—	—	—	—
Hernia	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	148
Intestinal obstruction	4	—	—	1	—	—	—	1	2	—	—	28	—	—	—	86	148
Cirrhosis of liver	4	—	—	—	1	2	—	1	—	—	—	—	38	63	—	86	—
Other dis. of digestive system	10	—	—	1	—	1	3	3	2	—	—	28	—	31	97	258	148
Acute nephritis	1	1	—	—	—	—	—	—	—	41	—	—	—	—	—	—	—
Chronic nephritis	14	—	—	—	1	1	6	1	5	—	—	—	38	31	195	86	370
Diseases of the prostate	7	—	—	—	—	—	—	—	7	—	—	—	—	—	—	—	519
Other genito-urinary diseases	3	—	—	1	—	—	1	—	1	—	—	28	—	—	32	—	74
Old age	71	—	—	—	—	—	1	1	69	—	—	—	—	—	32	86	5111
Suicide	9	—	—	1	1	3	3	—	1	—	—	28	38	94	97	—	74
Accident	5	—	—	1	—	1	2	1	—	—	—	28	—	31	65	86	—
Other causes	12	1	—	—	—	1	4	2	4	—	—	—	—	—	—	—	—
All causes	407	11	10	12	13	33	80	38	210	447	422	338	491	1039	2594	3265	15556
Years of life (Census population × 3)	19,797	2,460	2,367	3,549	2,646	3,177	3,084	1,164	1,350								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	181	120	85	77	90	101	65	115								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 929

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 95

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* Comprises Weavers and their Overlookers engaged in Textile manufactures other than Cotton, Woollen, or Worsted.

OCCUPATIONAL GROUP 64.—DYE MIXERS AND DYERS (381).

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
41	—	—	5	10	5	13	2	6	—	—	36	78	40	162	96	395	Influenza
110	6	9	22	24	20	25	4	—	103	123	157	186	161	312	192	—	Respiratory tuberculosis
11	1	3	3	2	1	1	—	—	17	41	21	16	8	12	—	—	Other tuberculosis
14	—	—	1	2	4	6	1	—	—	—	7	16	32	75	48	—	Syphilis, etc.
3	—	—	1	—	2	—	—	—	—	—	7	—	16	—	—	—	Syphilis
4	—	—	—	—	—	3	1	—	—	—	—	—	—	37	48	—	Tabes dorsalis
4	—	—	—	1	2	1	—	—	—	—	—	8	16	12	—	—	General paralysis of insane
3	—	—	—	1	—	2	—	—	—	—	—	8	—	25	—	—	Aneurysm
114	—	—	1	5	21	47	17	23	—	—	7	39	169	586	815	1515	Cancer, all sites
4	—	—	—	—	—	3	—	1	—	—	—	—	—	37	—	66	Skin
1	—	—	—	—	—	1	—	—	—	—	—	—	—	12	—	—	Lip
6	—	—	—	—	2	1	1	2	—	—	—	—	16	12	48	132	Tongue
5	—	—	—	—	—	3	1	1	—	—	—	—	—	37	48	66	Œsophagus
23	—	—	—	1	6	12	1	3	—	—	—	8	48	150	48	198	Stomach
75	—	—	1	4	13	27	14	16	—	—	7	31	105	337	671	1054	Other sites
11	—	—	—	—	—	4	3	4	—	—	—	—	—	50	144	264	Chronic rheumatism, etc., Gout
15	2	—	1	2	3	4	2	1	34	—	7	16	24	50	96	66	Diabetes
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism
71	—	—	—	—	10	16	19	26	—	—	—	—	81	200	911	1713	Cerebral hæmorrhage, etc.
28	2	3	4	2	4	6	4	3	34	41	29	16	32	75	192	198	Other dis. of the nervous system
81	1	2	8	4	10	24	14	18	17	27	57	31	81	299	671	1186	Valvular disease of heart
83	—	2	5	3	11	26	9	27	—	27	36	23	89	324	432	1779	Other heart disease
47	—	—	—	—	1	13	8	25	—	—	—	—	8	162	384	1647	Arterio-sclerosis
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Other dis. of circulatory system
116	—	—	1	5	17	29	20	44	—	—	7	39	137	362	959	2899	Bronchitis
75	2	4	8	13	11	22	6	9	34	55	57	101	89	274	288	593	Pneumonia
1	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—	—	Chronic interstitial pneumonia
13	—	—	—	2	5	3	1	2	—	—	—	16	40	37	48	132	Other dis. of respiratory system
7	—	—	1	1	3	2	—	—	—	—	7	8	24	25	—	—	Ulcer of stomach
8	—	—	—	1	4	1	2	—	—	—	—	8	32	12	96	—	Ulcer of duodenum
7	2	—	2	1	2	—	—	—	34	—	14	8	16	—	—	—	Appendicitis
3	—	—	—	1	1	—	—	1	—	—	—	8	8	—	—	66	Hernia
5	—	—	1	1	1	2	—	—	—	—	7	8	8	25	—	—	Intestinal obstruction
9	—	—	—	2	5	1	—	1	—	—	—	16	40	12	—	66	Cirrhosis of liver
16	—	—	—	1	3	6	4	2	—	—	—	8	24	75	192	132	Other dis. of digestive system
7	—	—	2	2	1	1	—	1	—	—	14	16	8	12	—	66	Acute nephritis
38	—	1	3	3	7	11	7	6	—	14	21	23	56	137	336	395	Chronic nephritis
9	—	—	—	—	—	1	3	5	—	—	—	—	—	12	144	329	Diseases of the prostate
9	—	—	—	—	5	3	1	—	—	—	—	—	40	37	48	—	Other genito-urinary diseases
50	—	—	—	—	—	—	1	49	—	—	—	—	—	—	48	3228	Old age
17	—	1	1	1	4	6	3	1	—	14	7	8	32	75	144	66	Suicide
32	1	2	8	7	6	2	1	5	17	27	57	54	48	25	48	329	Accident
46	4	2	5	7	5	12	7	4	—	—	—	—	—	—	—	—	Other causes
1,094	21	29	82	102	171	287	139	263	360	396	585	791	1377	3579	6667	17325	All causes
64,107	5,838	7,314	14,013	12,900	12,420	8,019	2,085	1,518									Years of life (Census population × 3)
—	146	113	147	124	119	139	134	128									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,304
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	131

OCCUPATIONAL GROUP 65.—SCOURERS (WOOLLEN, WORSTED, AND HOSIERY); CALENDERERS AND FINISHERS (384).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	27	—	3	2	4	2	7	4	5	—	31	14	31	16	86	188	288
Respiratory tuberculosis	97	5	12	17	26	19	11	2	5	59	124	115	202	155	135	94	288
Other tuberculosis	10	2	1	2	1	3	1	—	—	24	10	14	8	24	12	—	—
Syphilis, etc.	5	—	—	—	3	1	—	—	1	—	—	—	23	8	—	—	58
Syphilis	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	58
Tabes dorsalis	2	—	—	—	2	—	—	—	—	—	—	—	16	—	—	—	—
General paralysis of insane	2	—	—	—	1	1	—	—	—	—	—	—	8	8	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	128	—	—	1	7	17	47	33	23	—	—	7	54	139	576	1547	1324
Skin	5	—	—	—	—	—	—	4	1	—	—	—	—	—	—	188	58
Lip	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	58
Tongue	9	—	—	—	—	3	3	1	2	—	—	—	—	24	37	47	115
Œsophagus	5	—	—	—	—	1	3	1	—	—	—	—	—	8	37	47	—
Stomach	32	—	—	—	3	5	15	4	5	—	—	—	23	41	184	188	288
Other sites	76	—	—	1	4	8	26	23	14	—	—	7	31	65	319	1078	806
Chronic rheumatism, etc., Gout	7	—	—	1	—	—	3	—	3	—	—	7	—	—	37	—	173
Diabetes	11	—	—	2	1	2	4	2	—	—	—	14	8	16	49	94	—
Alcoholism	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	58
Cerebral hæmorrhage, etc.	85	—	—	—	2	7	18	20	38	—	—	—	16	57	221	938	2188
Other dis. of the nervous system	25	—	2	2	—	3	3	9	6	—	21	14	—	24	37	422	345
Valvular disease of heart	76	3	2	9	4	11	18	14	15	35	21	61	31	90	221	656	864
Other heart disease	79	—	—	5	7	5	20	17	25	—	—	34	54	41	245	797	1439
Arterio-sclerosis	54	—	—	—	—	4	8	13	29	—	—	—	—	33	98	609	1670
Other dis. of circulatory system	1	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—	—
Bronchitis	84	—	—	1	3	11	21	12	36	—	—	7	23	90	257	563	2073
Pneumonia	63	4	3	7	13	13	9	3	11	47	31	47	101	106	110	141	633
Chronic interstitial pneumonia	1	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—	—
Other dis. of respiratory system	6	—	—	—	—	1	1	3	1	—	—	—	—	8	12	141	58
Ulcer of stomach	4	—	—	2	1	—	1	—	—	—	—	14	8	—	12	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	5	—	—	1	2	1	1	—	—	—	—	7	16	8	12	—	—
Hernia	2	—	—	—	—	—	1	—	1	—	—	—	—	—	12	—	58
Intestinal obstruction	4	—	—	—	1	1	1	—	1	—	—	—	8	8	12	—	58
Cirrhosis of liver	6	—	—	—	—	1	1	3	1	—	—	—	—	8	12	141	58
Other dis. of digestive system	20	—	1	1	3	—	8	2	5	—	10	7	23	—	98	94	288
Acute nephritis	3	—	—	—	2	—	1	—	—	—	—	—	16	—	12	—	—
Chronic nephritis	36	—	—	6	3	11	6	6	4	—	—	41	23	90	74	281	230
Diseases of the prostate	13	—	—	—	—	—	5	1	7	—	—	—	—	—	61	47	403
Other genito-urinary diseases	8	—	—	—	—	—	4	1	3	—	—	—	—	—	49	47	173
Old age	54	—	—	—	—	—	—	5	49	—	—	—	—	—	—	234	2821
Suicide	11	—	—	—	3	1	2	—	5	—	—	—	23	8	25	—	288
Accident	13	—	—	1	1	3	5	1	2	—	—	7	8	24	61	47	115
Other causes	43	2	4	3	9	8	11	1	5	—	—	—	—	—	—	—	—
All causes	982	16	28	63	96	127	218	152	282	189	290	426	747	1036	2672	7126	16235
Years of life (Census population × 3)	70,050	8,457	9,648	14,805	12,849	12,261	8,160	2,133	1,737								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	77	82	107	117	90	104	143	119								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,015
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	101

OCCUPATIONAL GROUP 66.—CUTTERS OF TEXTILE GOODS AND CLOTHING (NOT MACHINE CUTTERS) (402).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 67.—TAILORS; TAILORS' PRESSERS AND MACHINISTS (404).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
4	1	—	—	1	1	—	—	1	32	—	—	14	17	—	—	181	Influenza	78	1	1	10	8	8	21	4	25	5	4	21	19	19	73	40	199
93	6	9	23	22	21	8	2	2	192	191	250	303	357	271	250	362	Respiratory tuberculosis	437	16	33	101	89	118	57	12	11	79	130	214	211	275	198	120	87
11	2	2	4	1	1	1	—	—	64	42	44	14	17	34	—	—	Other tuberculosis	45	8	8	7	5	5	8	2	2	39	31	15	12	12	28	20	16
8	—	—	—	2	4	2	—	—	—	—	—	28	68	68	—	—	Syphilis, etc.	69	—	—	4	19	20	13	9	4	—	—	8	45	47	45	90	32
2	—	—	—	—	1	1	—	—	—	—	—	—	17	34	—	—	Syphilis	8	—	—	1	2	4	1	—	—	—	—	2	5	9	3	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Tabes dorsalis	14	—	—	—	3	4	3	3	1	—	—	—	7	9	10	30	8
4	—	—	—	2	1	1	—	—	—	—	—	28	17	34	—	—	General paralysis of insane	28	—	—	3	13	9	2	1	—	—	—	6	31	21	7	10	—
2	—	—	—	—	2	—	—	—	—	—	—	—	34	—	—	—	Aneurysm	19	—	—	—	1	3	7	5	3	—	—	—	2	7	24	50	24
44	—	—	2	—	11	16	9	6	—	—	22	—	187	541	1124	1087	Cancer, all sites	422	1	2	4	23	63	119	73	137	5	8	8	55	147	414	730	1090
1	—	—	—	—	—	1	—	—	—	—	—	—	—	34	—	—	Skin	12	—	—	1	1	1	3	1	5	—	—	2	2	2	10	10	40
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	8
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Tongue	16	—	—	—	—	1	5	5	5	—	—	—	—	2	17	50	40
4	—	—	—	—	2	2	—	—	—	—	—	—	34	68	—	—	Œsophagus	35	—	—	—	1	3	12	8	11	—	—	—	2	7	42	80	87
3	—	—	—	—	1	1	1	—	—	—	—	—	17	34	125	—	Stomach	80	1	—	—	8	15	20	14	22	5	—	—	19	35	70	140	175
36	—	—	2	—	8	12	8	6	—	—	22	—	136	406	999	1087	Other sites	278	—	2	3	13	43	79	45	93	—	8	6	31	100	275	450	740
1	—	—	—	—	1	—	—	—	—	—	—	—	17	—	—	—	Chronic rheumatism, etc., Gout	18	—	—	—	—	—	4	5	9	—	—	—	—	—	14	50	72
4	—	—	1	2	—	—	1	—	—	—	11	28	—	—	125	—	Diabetes	40	1	1	4	2	8	7	7	10	5	4	8	5	19	24	70	80
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	3	—	—	—	—	2	—	—	1	—	—	—	—	5	—	—	8
27	—	—	1	1	4	8	3	10	—	—	11	14	68	271	375	1812	Cerebral hæmorrhage, etc.	239	—	1	1	4	24	57	40	112	—	4	2	10	56	198	400	891
11	—	3	2	1	3	1	—	1	—	63	22	14	51	34	—	181	Other dis. of the nervous system	97	4	2	5	10	16	19	14	27	20	8	11	24	37	66	140	215
26	—	1	5	2	5	7	2	4	—	21	54	28	85	237	250	725	Valvular disease of heart	197	1	7	11	26	22	47	29	54	5	28	23	62	51	164	290	429
36	—	2	2	3	2	7	9	11	—	42	22	41	34	237	1124	1993	Other heart disease	309	4	7	14	19	37	71	42	115	20	28	30	45	86	247	420	915
11	—	—	—	—	—	2	2	7	—	—	—	—	—	68	250	1268	Arterio-sclerosis	172	—	—	—	3	5	36	33	95	—	—	—	7	12	125	330	756
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	181	Other dis. of circulatory system	8	—	—	—	—	2	1	1	4	—	—	—	—	5	3	10	32
27	—	—	1	—	3	7	3	13	—	—	11	—	51	237	375	2355	Bronchitis	316	—	2	3	7	32	55	58	159	—	8	6	17	75	192	580	1265
32	1	3	3	2	10	8	2	3	32	63	33	28	170	271	250	543	Pneumonia	189	—	7	9	20	43	36	26	48	—	28	19	48	100	125	260	382
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	—	1	—	—	—	4	—	2	—	21	—	—	—	135	—	362	Other dis. of respiratory system	53	—	—	2	5	5	16	13	12	—	—	4	12	12	56	130	95
5	—	—	—	2	1	2	—	—	—	—	—	28	17	68	—	—	Ulcer of stomach	26	—	—	3	8	1	6	4	4	—	—	6	19	2	21	40	32
1	—	1	—	—	—	—	—	—	—	21	—	—	—	—	—	—	Ulcer of duodenum	16	—	1	1	4	3	5	2	—	—	4	2	10	7	17	20	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Appendicitis	19	2	4	2	4	1	3	—	3	10	16	4	10	2	10	—	24
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Hernia	13	—	—	—	3	1	4	2	3	—	—	—	7	2	14	20	24
1	—	—	—	1	—	—	—	—	—	—	—	14	—	—	—	—	Intestinal obstruction	12	—	—	1	—	2	4	2	3	—	—	2	—	5	14	20	24
1	—	—	—	—	1	—	—	—	—	—	—	—	17	—	—	—	Cirrhosis of liver	13	—	—	—	2	5	1	3	2	—	—	—	5	12	3	30	16
12	—	—	—	—	3	3	3	3	—	—	—	—	51	102	375	543	Other dis. of digestive system	55	1	1	4	6	9	13	4	17	5	4	8	14	21	45	40	135
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Acute nephritis	9	—	—	2	1	3	2	—	1	—	—	4	2	7	7	—	8
15	—	2	1	—	4	5	—	3	—	42	11	—	68	169	—	543	Chronic nephritis	102	—	1	7	8	22	27	12	25	—	4	15	19	51	94	120	199
5	—	—	—	—	1	2	—	2	—	—	—	—	17	68	—	362	Diseases of the prostate	53	—	—	—	—	—	10	9	34	—	—	—	—	—	35	90	271
2	—	—	—	1	—	—	—	1	—	—	—	14	—	—	—	181	Other genito-urinary diseases	29	—	1	—	—	5	6	2	15	—	4	—	—	12	21	20	119
23	—	—	—	—	—	1	1	21	—	—	—	—	—	34	125	3804	Old age	250	—	—	—	—	—	4	18	228	—	—	—	—	—	14	180	1813
4	—	—	—	—	3	1	—	—	—	—	—	—	51	34	—	—	Suicide	59	—	1	7	12	17	14	4	4	—	4	15	29	40	49	40	32
6	—	2	1	1	1	—	—	1	—	42	11	14	17	—	—	181	Accident	58	1	1	5	2	10	10	6	23	5	4	11	5	23	35	60	183
12	1	1	3	2	2	1	—	2	—	—	—	—	—	—	—	—	Other causes	100	5	3	8	10	12	23	16	23	—	—	—	—	—	—	—	—
430	11	27	49	44	82	86	37	94	352	571	533	605	1393	2910	4619	17029	All causes	3,506	45	84	215	300	501	699	452	1,210	222	330	455	713	1169	2434	4520	9624
34,503	3,126	4,725	9,186	7,272	5,886	2,955	801	552									Years of life (Census population × 3)	229,209	20,295	25,434	47,235	42,099	42,852	28,722	9,999	12,573								
—	143	162	134	95	121	113	93	125									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	90	94	114	112	101	95	91	71								

Group 66:

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,168

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 118

Group 67:

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,015

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 101

OCCUPATIONAL GROUP 68.—HAT FORMERS, PLANKERS, STIFFENERS (409).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	6	—	1	—	—	2	1	1	1	—	86	—	—	62	45	134	154
Respiratory tuberculosis ..	34	—	3	5	8	9	6	2	1	—	257	192	306	280	272	269	154
Other tuberculosis	4	—	1	1	1	—	—	1	—	—	86	38	38	—	—	134	—
Syphilis, etc.	4	—	—	—	—	3	—	1	—	—	—	—	—	93	—	134	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	1	—	—	—	—	—	—	—	31	—	—	—
General paralysis of insane ..	3	—	—	—	—	2	—	1	—	—	—	—	—	62	—	134	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	53	—	—	—	—	6	24	9	14	—	—	—	—	187	1088	1210	2160
Skin	4	—	—	—	—	1	1	—	2	—	—	—	—	31	45	—	309
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	—	1	—	1	—	—	—	—	—	45	—	154
Œsophagus	4	—	—	—	—	1	1	1	1	—	—	—	—	31	45	134	154
Stomach	12	—	—	—	—	2	5	3	2	—	—	—	—	62	227	403	309
Other sites	31	—	—	—	—	2	16	5	8	—	—	—	—	62	726	672	1235
Chronic rheumatism, etc., Gout	4	—	—	—	—	—	2	—	2	—	—	—	—	—	91	—	309
Diabetes	3	—	—	—	—	2	—	—	1	—	—	—	—	62	—	—	154
Alcoholism	1	—	—	—	—	1	—	—	—	—	—	—	—	31	—	—	—
Cerebral hæmorrhage, etc. ..	31	—	—	—	—	1	9	3	18	—	—	—	—	31	408	403	2778
Other dis. of the nervous system	4	—	—	—	2	—	1	1	—	—	—	—	77	—	45	134	—
Valvular disease of heart ..	16	—	1	2	1	1	5	1	5	—	86	77	38	31	227	134	772
Other heart disease	35	—	—	—	5	8	6	6	10	—	—	—	192	249	272	806	1543
Arterio-sclerosis	17	—	—	—	—	—	2	5	10	—	—	—	—	—	91	672	1543
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis..	35	—	—	—	—	4	4	5	22	—	—	—	—	124	181	672	3395
Pneumonia	16	—	1	3	3	2	3	3	1	—	86	115	115	62	136	403	154
Chronic interstitial pneumonia ..	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	134	—
Other dis. of respiratory system	7	—	—	1	—	1	4	—	1	—	—	38	—	31	181	—	154
Ulcer of stomach	2	—	—	1	1	—	—	—	—	—	—	38	38	—	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hernia	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	134	309
Intestinal obstruction	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	134	—
Cirrhosis of liver	3	—	—	—	1	—	2	—	—	—	—	—	38	—	91	—	—
Other dis. of digestive system ..	7	—	1	1	—	1	1	1	2	—	86	38	—	31	45	134	309
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis..	15	—	—	1	2	1	2	1	8	—	—	38	77	31	91	134	1235
Diseases of the prostate ..	3	—	—	—	—	—	—	2	1	—	—	—	—	—	—	269	154
Other genito-urinary diseases ..	5	—	—	—	—	2	—	1	2	—	—	—	—	62	—	134	309
Old age	23	—	—	—	—	—	2	3	18	—	—	—	—	—	91	403	2778
Suicide	1	—	—	—	—	1	—	—	—	—	—	—	—	31	—	—	—
Accident	5	—	—	—	—	1	3	—	1	—	—	—	—	31	136	—	154
Other causes	6	—	—	—	—	2	—	1	3	—	—	—	—	—	—	—	—
All causes..	345	—	8	15	24	48	77	50	123	—	686	577	920	1494	3492	6720	18981
Years of life (Census population × 3)	14,283	1,095	1,167	2,601	2,610	3,213	2,205	744	648								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	195	145	144	129	136	135	140								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,396
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 138

OCCUPATIONAL GROUP 69.—BOOT AND SHOE MAKERS AND REPAIRERS (NOT FACTORY HANDS) (412).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	96	2	3	9	10	8	16	13	35	13	18	25	29	23	57	117	183
Respiratory tuberculosis ..	334	18	25	65	85	71	49	15	6	121	148	178	244	204	175	135	31
Other tuberculosis	65	5	6	18	11	9	11	3	2	34	36	49	31	26	39	27	10
Syphilis, etc.	55	1	—	3	13	14	10	5	9	7	—	8	37	40	36	45	47
Syphilis	5	—	—	—	2	1	2	—	—	—	—	—	6	3	7	—	—
Tabes dorsalis	10	—	—	—	—	1	1	4	4	—	—	—	—	3	4	36	21
General paralysis of insane ..	21	1	—	3	6	8	1	1	1	7	—	8	17	23	4	9	5
Aneurysm	19	—	—	—	5	4	6	—	4	—	—	—	14	11	21	—	21
Cancer, all sites	438	—	—	4	14	46	116	74	184	—	—	11	40	132	415	666	964
Skin	16	—	—	1	—	2	4	1	8	—	—	3	—	6	14	9	42
Lip	1	—	—	—	—	1	—	—	—	—	—	—	—	3	—	—	—
Tongue	28	—	—	—	—	5	7	5	11	—	—	—	—	14	25	45	58
Œsophagus	33	—	—	—	—	5	11	4	13	—	—	—	—	14	39	36	68
Stomach	95	—	—	1	4	7	32	18	33	—	—	3	11	20	115	162	173
Other sites	265	—	—	2	10	26	62	46	119	—	—	5	29	75	222	414	624
Chronic rheumatism, etc., Gout	16	—	—	1	—	—	3	3	9	—	—	3	—	—	11	27	47
Diabetes	22	3	—	3	—	4	5	2	5	20	—	8	—	11	18	18	26
Alcoholism	4	—	—	—	2	2	—	—	—	—	—	—	6	6	—	—	—
Cerebral hæmorrhage, etc. ..	319	—	—	2	7	16	50	41	203	—	—	5	20	46	179	369	1064
Other dis. of the nervous system	94	1	6	6	6	14	16	9	36	7	36	16	17	40	57	81	189
Valvular disease of heart ..	237	4	7	10	19	26	49	29	93	27	42	27	54	75	175	261	487
Other heart disease	361	3	4	11	7	21	57	55	203	20	24	30	20	60	204	495	1064
Arterio-sclerosis	200	—	—	1	2	7	18	22	150	—	—	3	6	20	64	198	786
Other dis. of circulatory system	9	—	—	—	—	1	—	1	7	—	—	—	—	3	—	9	37
Bronchitis..	435	—	1	6	9	30	43	45	301	—	6	16	26	86	154	405	1578
Pneumonia	208	3	4	17	22	37	33	25	67	20	24	47	63	106	118	225	351
Chronic interstitial pneumonia ..	1	—	—	—	—	—	1	—	—	—	—	—	—	—	4	—	—
Other dis. of respiratory system	53	1	—	3	3	13	11	7	15	7	—	8	9	37	39	63	79
Ulcer of stomach	21	—	—	3	7	6	4	—	1	—	—	8	20	17	14	—	5
Ulcer of duodenum	8	—	1	1	—	3	1	1	1	—	6	3	—	9	4	9	5
Appendicitis	11	4	2	—	—	2	—	1	2	27	12	—	—	6	—	9	10
Hernia	15	—	—	—	1	1	2	3	8	—	—	—	3	3	7	27	42
Intestinal obstruction	24	—	—	3	—	6	4	—	11	—	—	8	—	17	14	—	58
Cirrhosis of liver	19	—	—	—	3	4	4	5	3	—	—	—	9	11	14	45	16
Other dis. of digestive system ..	79	1	1	5	4	8	7	10	43	7	6	14	11	23	25	90	225
Acute nephritis	7	—	—	1	2	1	3	—	—	—	—	3	6	3	11	—	—
Chronic nephritis..	108	3	—	8	9	15	14	16	43	20	—	22	26	43	50	144	225
Diseases of the prostate ..	63	—	—	—	—	—	5	9	49	—	—	—	—	—	18	81	257
Other genito-urinary diseases ..	36	—	—	1	—	2	5	6	22	—	—	3	—	6	18	54	115
Old age	462	—	—	—	—	—	4	8	450	—	—	—	—	—	14	72	2358
Suicide	69	1	1	3	10	16	15	12	11	7	6	8	29	46	54	108	58
Accident	63	4	2	2	6	7	11	4	27	27	12	5	17	20	39	36	142
Other causes	127	6	5	12	8	26	20	15	35	—	—	—	—	—	—	—	—
All causes..	4,059	60	68	198	260	416	587	439	2,031	402	403	543	741	1193	2102	3951	10645
Years of life (Census population × 3)	196,290	14,913	16,860	36,450	35,067	34,884	27,924	11,112	19,080								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	163	114	136	116	103	82	79	78								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,014
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 99

OCCUPATIONAL GROUP 70.—BOOT AND SHOE CLICKERS AND CUTTERS (413).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	15	3	1	3	—	3	3	1	1	40	14	28	—	38	69	85	137
Respiratory tuberculosis	117	5	19	28	31	26	5	2	1	67	263	259	328	330	115	170	137
Other tuberculosis	6	2	—	1	2	—	—	—	1	27	—	9	21	—	—	—	137
Syphilis, etc.	8	—	—	—	1	7	—	—	—	—	—	—	11	89	—	—	—
Syphilis	2	—	—	—	1	1	—	—	—	—	—	—	11	13	—	—	—
Tabes dorsalis	3	—	—	—	—	3	—	—	—	—	—	—	—	38	—	—	—
General paralysis of insane	1	—	—	—	—	1	—	—	—	—	—	—	—	13	—	—	—
Aneurysm	2	—	—	—	—	2	—	—	—	—	—	—	—	25	—	—	—
Cancer, all sites	79	—	1	5	1	8	27	14	23	—	14	46	11	101	621	1190	3155
Skin	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	85	274
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	—	1	1	—	—	—	—	—	—	23	85	—
Œsophagus	3	—	—	—	—	—	1	—	2	—	—	—	—	—	23	—	274
Stomach	15	—	—	2	—	2	6	1	4	—	—	19	—	25	138	85	549
Other sites	56	—	1	3	1	6	19	11	15	—	14	28	11	76	437	935	2058
Chronic rheumatism, etc., Gout	4	—	—	1	—	—	2	1	—	—	—	9	—	—	46	85	—
Diabetes	5	—	—	1	—	—	2	1	1	—	—	9	—	—	46	85	137
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	43	—	1	—	1	4	14	11	12	—	14	—	11	51	322	935	1646
Other dis. of the nervous system	15	1	1	1	2	2	4	—	4	13	14	9	21	25	92	—	549
Valvular disease of heart	41	2	1	7	5	8	6	4	8	27	14	65	53	101	138	340	1097
Other heart disease	40	1	—	8	5	5	11	3	7	13	—	74	53	63	253	255	960
Arterio-sclerosis	21	—	—	—	—	1	7	4	9	—	—	—	—	13	161	340	1235
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	33	—	—	1	2	6	7	5	12	—	—	9	21	76	161	425	1646
Pneumonia	26	1	1	4	6	5	4	4	1	13	14	37	63	63	92	340	137
Chronic interstitial pneumonia	1	—	—	—	—	1	—	—	—	—	—	—	—	13	—	—	—
Other dis. of respiratory system	6	1	—	1	1	1	—	2	—	13	—	9	11	13	—	170	—
Ulcer of stomach	5	—	—	1	1	3	—	—	—	—	—	9	11	38	—	—	—
Ulcer of duodenum	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	85	—
Appendicitis	3	—	1	1	—	1	—	—	—	—	14	9	—	13	—	—	—
Hernia	2	—	—	—	—	—	1	—	1	—	—	—	—	—	23	—	137
Intestinal obstruction	1	—	1	—	—	—	—	—	—	—	14	—	—	—	—	—	—
Cirrhosis of liver	3	—	—	—	—	—	3	—	—	—	—	—	—	—	69	—	—
Other dis. of digestive system	5	—	1	—	—	1	2	—	1	—	14	—	—	13	46	—	137
Acute nephritis	1	—	—	—	1	—	—	—	—	—	—	—	11	—	—	—	—
Chronic nephritis	19	—	1	3	—	4	5	3	3	—	14	28	—	51	115	255	412
Diseases of the prostate	4	—	—	—	—	—	1	2	1	—	—	—	—	—	23	170	137
Other genito-urinary diseases	6	—	—	2	—	—	2	1	1	—	—	19	—	—	46	85	137
Old age	28	—	—	—	—	—	—	2	26	—	—	—	—	—	—	170	3567
Suicide	6	1	—	—	1	1	1	2	—	13	—	—	11	13	23	170	—
Accident	7	1	1	1	2	1	1	—	—	13	14	9	21	13	23	—	—
Other causes	26	6	2	8	—	2	4	1	3	—	—	—	—	—	—	—	—
All causes	577	24	32	77	62	90	112	64	116	322	443	713	656	1141	2576	5442	15912
Years of life (Census population × 3)	49,071	7,449	7,230	10,803	9,450	7,887	4,347	1,176	729								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	130	126	179	103	99	100	109	117								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,104
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	113

OCCUPATIONAL GROUP 71.—SKILLED BOOT AND SHOE OPERATIVES—NOT CLICKERS OR CUTTERS (414).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	35	3	3	3	4	7	6	4	5	21	21	14	20	34	50	130	204
Respiratory tuberculosis	272	22	37	53	52	60	37	6	5	154	261	252	261	293	310	196	204
Other tuberculosis	17	3	2	5	4	1	1	1	—	21	14	24	20	5	8	33	—
Syphilis, etc.	30	—	—	—	6	10	10	3	1	—	—	—	30	49	84	98	41
Syphilis	5	—	—	—	—	—	4	1	—	—	—	—	—	—	33	33	—
Tabes dorsalis	7	—	—	—	2	2	1	2	—	—	—	—	10	10	8	65	—
General paralysis of insane	11	—	—	—	2	5	4	—	—	—	—	—	10	24	33	—	—
Aneurysm	7	—	—	—	2	3	1	—	1	—	—	—	10	15	8	—	41
Cancer, all sites	180	1	—	1	8	37	54	35	44	7	—	5	40	181	452	1142	1797
Skin	3	—	—	—	—	1	1	—	1	—	—	—	—	5	8	—	41
Lip	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	82
Tongue	6	—	—	—	—	—	3	3	—	—	—	—	—	—	25	98	—
Œsophagus	11	—	—	—	—	2	3	2	4	—	—	—	—	10	25	65	163
Stomach	40	—	—	—	1	9	18	9	3	—	—	—	5	44	151	294	123
Other sites	118	1	—	1	7	25	29	21	34	7	—	5	35	122	243	685	1389
Chronic rheumatism, etc., Gout	9	—	—	—	1	—	5	1	2	—	—	—	5	—	42	33	82
Diabetes	13	1	1	1	—	5	4	—	1	7	7	5	—	24	33	—	41
Alcoholism	1	—	—	—	—	1	—	—	—	—	—	—	—	5	—	—	—
Cerebral hæmorrhage, etc.	108	—	—	—	4	8	30	23	43	—	—	—	20	39	251	750	1757
Other dis. of the nervous system	44	1	4	5	4	6	6	6	12	7	28	24	20	29	50	196	490
Valvular disease of heart	93	3	5	8	7	14	28	11	17	21	35	38	35	68	234	359	694
Other heart disease	122	2	1	6	6	12	31	24	40	14	7	28	30	59	259	783	1634
Arterio-sclerosis	47	—	—	—	—	2	7	13	25	—	—	—	—	10	59	424	1021
Other dis. of circulatory system	2	—	—	—	—	1	—	—	1	—	—	—	—	5	—	—	41
Bronchitis	126	1	—	3	4	9	26	26	57	7	—	14	20	44	218	848	2328
Pneumonia	86	1	4	5	18	17	23	12	6	7	28	24	90	83	193	391	245
Chronic interstitial pneumonia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—
Other dis. of respiratory system	29	1	2	2	2	4	7	2	9	7	14	9	10	20	59	65	368
Ulcer of stomach	19	1	2	1	3	5	6	1	—	7	14	5	15	24	50	33	—
Ulcer of duodenum	7	—	—	—	—	2	4	1	—	—	—	—	—	10	33	33	—
Appendicitis	11	2	1	3	—	2	3	—	—	14	7	14	—	10	25	—	—
Hernia	6	—	—	—	—	1	—	1	4	—	—	—	—	5	—	33	163
Intestinal obstruction	4	—	—	1	—	2	1	—	—	—	—	5	—	10	8	—	—
Cirrhosis of liver	6	—	—	—	1	1	3	—	1	—	—	—	5	5	25	—	41
Other dis. of digestive system	24	1	—	—	1	4	6	7	5	7	—	—	5	20	50	228	204
Acute nephritis	3	—	—	—	3	—	—	—	—	—	—	—	15	—	—	—	—
Chronic nephritis	43	1	2	4	1	5	12	7	11	7	14	19	5	24	100	228	449
Diseases of the prostate	15	—	—	—	—	—	3	5	7	—	—	—	—	—	25	163	286
Other genito-urinary diseases	12	—	—	—	1	3	1	3	4	—	—	—	5	15	8	98	163
Old age	86	—	—	—	—	—	2	3	81	—	—	—	—	—	17	98	3309
Suicide	26	—	2	4	8	5	5	—	2	—	14	19	40	24	42	—	82
Accident	18	2	—	1	—	3	3	—	9	14	—	5	—	15	25	—	368
Other causes	56	4	7	5	3	15	10	8	4	—	—	—	—	—	—	—	—
All causes	1,551	50	73	111	141	242	335	203	396	349	515	527	706	1182	2804	6621	16176
Years of life (Census population × 3)	107,451	14,316	14,172	21,063	19,965	20,472	11,949	3,066	2,448								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	141	146	132	110	102	109	133	119								

All Causes—ages 20 65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,120
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	112

OCCUPATIONAL GROUP 72.—GRAIN MILLERS (432).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 73.—BAKERS AND PASTRYCOOKS (433).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
12	—	—	—	1	2	6	—	3	—	—	—	17	38	136	—	159	Influenza	71	3	3	3	13	13	17	8	11	12	14	7	34	40	85	127	160
29	—	4	4	6	6	7	2	—	—	125	65	105	114	159	149	—	Respiratory tuberculosis ..	259	16	32	62	52	53	38	2	4	64	145	141	136	164	190	32	58
1	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—	—	Other tuberculosis	22	3	4	7	3	3	2	—	—	12	18	16	8	9	10	—	—
4	—	—	—	1	1	2	—	—	—	—	—	17	19	45	—	—	Syphilis, etc.	32	—	—	—	9	13	7	2	1	—	—	—	23	40	35	32	15
1	—	—	—	1	—	—	—	—	—	—	—	17	—	—	—	—	Syphilis..	1	—	—	—	—	1	—	—	—	—	—	—	—	3	—	—	—
2	—	—	—	—	1	1	—	—	—	—	—	—	19	23	—	—	Tabes dorsalis	11	—	—	—	—	6	2	2	1	—	—	—	—	19	10	32	15
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	General paralysis of insane ..	15	—	—	—	9	1	5	—	—	—	—	—	23	3	25	—	—
1	—	—	—	—	—	1	—	—	—	—	—	—	—	23	—	—	Aneurysm	5	—	—	—	—	5	—	—	—	—	—	—	—	15	—	—	—
56	1	—	—	—	6	18	7	24	47	—	—	—	114	408	523	1270	Cancer, all sites	294	—	2	4	16	66	86	51	69	—	9	9	42	204	429	812	1004
5	—	—	—	—	—	2	—	3	—	—	—	—	—	45	—	159	Skin	8	—	—	—	—	1	1	2	4	—	—	—	—	3	5	32	58
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip	1	—	—	—	—	—	1	—	—	—	—	—	—	—	5	—	—
2	—	—	—	—	—	1	—	1	—	—	—	—	—	23	—	53	Tongue	17	—	—	—	1	4	5	3	4	—	—	—	3	12	25	48	58
2	—	—	—	—	—	1	—	1	—	—	—	—	—	23	—	53	Œsophagus	23	—	—	—	1	9	7	2	4	—	—	—	3	28	35	32	58
16	—	—	—	—	2	4	2	8	—	—	—	—	38	91	149	423	Stomach	61	—	—	—	3	15	21	12	10	—	—	—	8	46	105	191	145
31	1	—	—	—	4	10	5	11	47	—	—	—	76	227	374	582	Other sites	184	—	2	4	11	37	51	32	47	—	9	9	29	114	254	510	684
5	—	—	—	—	1	1	—	3	—	—	—	—	19	23	—	159	Chronic rheumatism, etc., Gout	8	—	—	—	—	—	3	3	2	—	—	—	—	—	15	48	29
4	—	1	—	—	—	3	—	—	—	31	—	—	—	68	—	—	Diabetes	25	1	2	5	5	2	4	1	5	4	9	11	13	6	20	16	73
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	1	—	—	—	—	1	—	—	—	—	—	—	—	3	—	—	—
57	1	—	—	1	1	7	8	39	47	—	—	17	19	159	598	2063	Cerebral hæmorrhage, etc. ..	126	1	1	—	2	17	21	21	63	4	5	—	5	52	105	334	917
17	—	—	1	4	2	4	4	2	—	—	16	70	38	91	299	106	Other dis. of the nervous system	70	2	4	9	9	11	17	3	15	8	18	21	23	34	85	48	218
33	—	—	1	1	2	2	9	18	—	—	16	17	38	45	673	952	Valvular disease of heart ..	140	1	5	7	15	22	28	19	43	4	23	16	39	68	140	303	626
51	—	—	2	2	4	11	8	24	—	—	33	35	76	249	598	1270	Other heart disease	187	4	5	7	11	19	32	30	79	16	23	16	29	59	160	478	1149
26	—	—	—	—	—	3	2	21	—	—	—	—	—	68	149	1111	Arterio-sclerosis	89	—	—	1	—	6	16	12	54	—	—	2	—	19	80	191	786
2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	106	Other dis. of circulatory system	7	—	—	1	—	2	2	2	—	—	—	2	—	6	10	32	—
77	—	—	—	—	1	11	6	59	—	—	—	—	19	249	448	3122	Bronchitis..	191	—	—	2	6	11	32	34	106	—	—	5	16	34	160	541	1542
26	—	—	3	6	3	8	1	5	—	—	49	105	57	181	75	265	Pneumonia	159	7	6	16	25	32	37	12	24	28	27	36	65	99	185	191	349
2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	75	53	Chronic interstitial pneumonia ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	—	—	—	—	1	3	5	3	—	—	—	—	19	68	374	159	Other dis. of respiratory system	36	1	1	1	3	8	9	5	8	4	5	2	8	25	45	80	116
1	—	—	—	—	—	1	—	—	—	—	—	—	—	23	—	—	Ulcer of stomach	16	—	2	4	2	3	1	1	3	—	9	9	5	9	5	16	44
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Ulcer of duodenum	7	—	1	—	1	4	1	—	—	—	5	—	3	12	5	—	—
3	1	—	1	1	—	—	—	—	47	—	16	17	—	—	—	—	Appendicitis	9	4	—	1	1	1	1	—	1	16	—	2	3	3	5	—	15
2	—	—	—	—	—	1	—	1	—	—	—	—	—	23	—	53	Hernia	10	1	—	—	—	—	2	4	3	4	—	—	—	—	10	64	44
2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	75	53	Intestinal obstruction ..	6	—	—	—	—	—	2	2	2	—	—	—	—	—	10	32	29
4	—	—	—	—	1	1	—	2	—	—	—	—	19	23	—	106	Cirrhosis of liver	12	1	—	—	—	6	2	1	2	4	—	—	—	19	10	16	29
11	—	—	—	1	—	4	—	6	—	—	—	17	—	91	—	317	Other dis. of digestive system ..	32	—	—	1	5	5	10	2	9	—	—	2	13	15	50	32	131
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Acute nephritis	2	—	1	—	1	—	—	—	—	—	5	—	3	—	—	—	—
13	—	—	—	1	—	3	3	6	—	—	—	17	—	68	224	317	Chronic nephritis	58	—	2	—	3	7	19	6	21	—	9	—	8	22	95	96	306
16	—	—	—	—	—	1	1	14	—	—	—	—	—	23	75	741	Diseases of the prostate ..	22	—	—	—	—	—	4	4	14	—	—	—	—	—	20	64	204
4	—	—	—	—	—	—	—	4	—	—	—	—	—	—	—	212	Other genito-urinary diseases ..	14	—	1	1	1	1	3	—	7	—	5	2	3	3	15	—	102
47	—	—	—	—	—	—	—	47	—	—	—	—	—	—	—	2487	Old age	111	—	—	—	—	—	—	7	104	—	—	—	—	—	—	111	1513
10	—	1	1	—	3	4	1	—	—	31	16	—	57	91	75	—	Suicide	44	1	4	7	9	10	7	2	4	4	18	16	23	31	35	32	58
17	—	2	1	1	2	5	1	5	—	62	16	17	38	113	75	265	Accident	55	6	1	6	2	14	8	3	15	24	5	14	5	43	40	48	218
11	—	—	—	1	2	5	1	2	—	—	—	—	—	—	—	—	Other causes	81	8	6	9	8	6	15	12	17	—	—	—	—	—	—	—	—
555	3	8	14	27	39	111	61	292	142	249	228	471	744	2517	4559	15450	All causes	2,196	60	83	154	202	336	426	249	686	241	377	351	527	1037	2126	3966	9981
30,066	2,112	3,210	6,138	5,727	5,241	4,410	1,338	1,890	Years of life (Census population × 3)									194,703	24,894	22,002	43,878	38,349	32,388	20,040	6,279	6,873								
—	57	71	57	74	64	98	91	114	Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.									—	98	107	88	82	90	83	79	73								

Occupational Group 72:

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	785
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	81

Occupational Group 73:

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	864
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	87

OCCUPATIONAL GROUP 74.—BREWERS OF ALE, STOUT AND PORTER (453).

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	
5	—	—	1	—	—	—	1	3	—	—	82	—	—	—	243	483	Influenza .. ..
8	—	—	2	1	3	1	—	1	—	—	164	62	169	82	—	161	Respiratory tuberculosis ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Other tuberculosis .. ..
9	—	—	1	1	4	3	—	—	—	—	82	62	226	246	—	—	Syphilis, etc. .. .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Syphilis .. .. ..
1	—	—	—	—	—	1	—	—	—	—	—	—	—	82	—	—	Tabes dorsalis .. .. ..
5	—	—	—	1	4	—	—	—	—	—	—	62	226	—	—	—	General paralysis of insane ..
3	—	—	1	—	—	2	—	—	—	—	82	—	—	164	—	—	Aneurysm .. .. ..
33	—	—	—	1	2	11	5	14	—	—	—	62	113	903	1217	2254	Cancer, all sites .. .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Skin .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip .. ..
3	—	—	—	—	—	2	—	1	—	—	—	—	—	164	—	161	Tongue .. ..
4	—	—	—	—	1	2	1	—	—	—	—	—	56	164	243	—	Œsophagus .. .. ..
4	—	—	—	—	—	—	1	3	—	—	—	—	—	—	243	483	Stomach .. .. ..
22	—	—	—	1	1	7	3	10	—	—	—	62	56	575	730	1610	Other sites .. .. ..
3	—	—	—	—	1	1	—	1	—	—	—	—	56	82	—	161	Chronic rheumatism, etc., Gout
6	—	—	—	—	—	1	2	3	—	—	—	—	—	82	487	483	Diabetes .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism .. .. ..
17	—	—	—	—	2	6	5	4	—	—	—	—	113	493	1217	644	Cerebral hæmorrhage, etc. ..
3	—	—	—	—	—	1	1	1	—	—	—	—	—	82	243	161	Other dis. of the nervous system
9	—	—	1	1	1	2	—	4	—	—	82	62	56	164	—	644	Valvular disease of heart ..
15	—	—	—	1	1	3	4	6	—	—	—	62	56	246	973	966	Other heart disease .. ..
19	—	—	1	—	1	1	7	9	—	—	82	—	56	82	1703	1449	Arterio-sclerosis .. .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Other dis. of circulatory system
20	—	—	—	—	3	2	2	13	—	—	—	—	169	164	487	2093	Bronchitis.. .. .. ..
9	—	—	—	—	1	2	1	5	—	—	—	—	56	164	243	805	Pneumonia .. .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia ..
4	—	—	—	—	1	2	1	—	—	—	—	—	56	164	243	—	Other dis. of respiratory system
2	—	—	—	—	—	2	—	—	—	—	—	—	—	164	—	—	Ulcer of stomach .. ..
1	—	—	—	1	—	—	—	—	—	—	—	62	—	—	—	—	Ulcer of duodenum .. ..
3	—	—	—	1	—	2	—	—	—	—	—	62	—	164	—	—	Appendicitis .. .. ..
2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	322	Hernia .. ..
1	—	—	—	—	1	—	—	—	—	—	—	—	56	—	—	—	Intestinal obstruction .. ..
6	—	—	—	—	3	3	—	—	—	—	—	—	169	246	—	—	Cirrhosis of liver .. .. ..
3	—	—	—	—	1	—	—	2	—	—	—	—	56	—	—	322	Other dis. of digestive system ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Acute nephritis .. .. ..
10	—	—	—	1	2	1	1	5	—	—	—	62	113	82	243	805	Chronic nephritis.. .. ..
2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	322	Diseases of the prostate ..
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	161	Other genito-urinary diseases ..
14	—	—	—	—	—	—	1	13	—	—	—	—	—	—	243	2093	Old age .. ..
5	—	—	—	—	3	2	—	—	—	—	—	—	169	164	—	—	Suicide .. ..
5	—	1	1	—	2	—	—	1	—	187	82	—	113	—	—	161	Accident .. ..
3	—	—	—	—	1	1	—	1	—	—	—	—	—	—	—	—	Other causes .. .. ..
218	—	1	7	8	33	47	31	91	—	187	576	496	1861	3859	7543	14654	All causes.. .. .. ..
7,593	207	534	1,215	1,614	1,773	1,218	411	621									Years of life (Census population × 3) .. ..
—	—	53	144	78	161	150	151	108									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,346
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 141

OCCUPATIONAL GROUP 75.—CELLARMEN (455).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55 —	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	10	—	—	2	1	1	6	—	—	—	—	50	24	26	272	—	—
Respiratory tuberculosis ..	43	2	8	4	14	9	4	1	1	105	370	100	331	238	181	158	189
Other tuberculosis	2	—	—	—	1	—	—	—	1	—	—	—	24	—	—	—	189
Syphilis, etc.	8	—	—	—	3	1	3	1	—	—	—	—	71	26	136	158	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	2	—	—	—	1	—	1	—	—	—	—	—	24	—	45	—	—
General paralysis of insane ..	4	—	—	—	2	1	1	—	—	—	—	—	47	26	45	—	—
Aneurysm	2	—	—	—	—	—	1	1	—	—	—	—	—	—	45	158	—
Cancer, all sites	53	—	—	3	3	12	17	8	10	—	—	75	71	317	771	1264	1894
Skin	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	189
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	1	—	—	1	—	—	—	—	26	—	—	189
Œsophagus	10	—	—	—	1	5	1	3	—	—	—	—	24	132	45	474	—
Stomach	6	—	—	1	1	2	—	1	1	—	—	25	24	53	—	158	189
Other sites	34	—	—	2	1	4	16	4	7	—	—	50	24	106	726	632	1326
Chronic rheumatism, etc., Gout	4	—	—	—	1	—	1	1	1	—	—	—	24	—	45	158	189
Diabetes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alcoholism	1	—	—	—	1	—	—	—	—	—	—	—	24	—	—	—	—
Cerebral hæmorrhage, etc. ..	12	—	—	—	1	2	3	1	5	—	—	—	24	53	136	158	947
Other dis. of the nervous system	7	1	—	2	—	1	2	—	1	52	—	50	—	26	91	—	189
Valvular disease of heart ..	17	—	—	1	3	5	3	1	4	—	—	25	71	132	136	158	758
Other heart disease	34	—	—	3	3	5	9	4	10	—	—	75	71	132	408	632	1894
Arterio-sclerosis	14	—	—	—	—	1	3	5	5	—	—	—	—	26	136	790	947
Other dis. of circulatory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	189
Bronchitis..	28	—	—	1	1	4	8	3	11	—	—	25	24	106	363	474	2083
Pneumonia	19	1	1	3	1	3	4	2	4	52	46	75	24	79	181	316	758
Chronic interstitial pneumonia ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	6	—	—	—	1	1	3	—	1	—	—	—	24	26	136	—	189
Ulcer of stomach	6	—	—	—	2	2	—	2	—	—	—	—	47	53	—	316	—
Ulcer of duodenum	3	1	—	—	—	1	1	—	—	52	—	—	—	26	45	—	—
Appendicitis	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	189
Hernia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	189
Intestinal obstruction	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	189
Cirrhosis of liver	8	—	—	—	2	3	2	1	—	—	—	—	47	79	91	158	—
Other dis. of digestive system ..	6	—	1	—	1	—	2	—	2	—	46	—	24	—	91	—	379
Acute nephritis	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	189
Chronic nephritis..	12	—	1	1	2	2	4	1	1	—	46	25	47	53	181	158	189
Diseases of the prostate ..	6	—	—	—	—	—	—	2	4	—	—	—	—	—	—	316	758
Other genito-urinary diseases ..	3	—	—	—	—	1	1	—	1	—	—	—	—	26	45	—	189
Old age	10	—	—	—	—	—	—	—	10	—	—	—	—	—	—	—	1894
Suicide	7	1	—	—	2	1	3	—	—	52	—	—	47	26	136	—	—
Accident	12	1	—	1	3	3	3	—	1	52	—	25	71	79	136	—	189
Other causes	11	—	—	2	4	1	3	1	—	—	—	—	—	—	—	—	—
All causes..	347	7	11	23	50	59	85	34	78	367	509	576	1183	1558	3855	5371	14773
Years of life (Census population × 3)	19,440	1,908	2,160	3,993	4,227	3,786	2,205	633	528								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	149	145	144	185	135	150	108	109								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,510
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 150

OCCUPATIONAL GROUP 76.—TOBACCO FACTORY OPERATIVES (461–469).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 77.—FOREMEN AND OVERLOOKERS (WOOD-WORKING) (471).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
4	1	1	—	—	1	1	—	—	32	34	—	—	41	57	—	—	Influenza	10	—	—	1	2	2	2	—	3	—	—	26	21	26	40	—	250
49	5	10	8	3	13	9	—	1	162	339	186	82	528	511	—	176	Respiratory tuberculosis	24	—	—	2	5	8	6	2	1	—	—	52	52	103	120	169	83
1	—	—	1	—	—	—	—	—	—	—	23	—	—	—	—	—	Other tuberculosis	1	—	—	—	1	—	—	—	—	—	—	—	10	—	—	—	—
3	—	—	—	—	1	2	—	—	—	—	—	—	41	114	—	—	Syphilis, etc.	4	—	—	—	1	2	—	—	1	—	—	—	10	26	—	—	83
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1	—	—	—	—	—	1	—	—	—	—	—	—	—	57	—	—	Tabes dorsalis	2	—	—	—	1	—	—	—	1	—	—	—	10	—	—	—	83
2	—	—	—	—	1	1	—	—	—	—	—	—	41	57	—	—	General paralysis of insane	1	—	—	—	—	1	—	—	—	—	—	—	—	13	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Aneurysm	1	—	—	—	—	1	—	—	—	—	—	—	—	13	—	—	—
28	—	—	—	1	6	11	5	5	—	—	—	27	244	625	794	882	Cancer, all sites	61	—	—	2	1	10	20	5	23	—	—	52	10	129	402	423	1917
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Skin	3	—	—	—	—	—	1	—	2	—	—	—	—	—	20	—	167
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	83
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Tongue	3	—	—	—	—	—	1	—	2	—	—	—	—	—	20	—	167
2	—	—	—	—	—	1	1	—	—	—	—	—	—	57	159	—	Œsophagus	2	—	—	—	—	1	—	1	—	—	—	—	—	13	—	85	—
7	—	—	—	1	2	1	1	2	—	—	—	27	81	57	159	353	Stomach	22	—	—	1	—	4	11	1	5	—	—	26	—	52	221	85	417
19	—	—	—	—	4	9	3	3	—	—	—	—	162	511	476	529	Other sites	30	—	—	1	1	5	7	3	13	—	—	26	10	65	141	254	1083
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic rheumatism, etc., Gout	4	—	—	—	—	1	—	1	2	—	—	—	—	13	—	85	167
4	1	—	—	—	2	1	—	—	32	—	—	—	81	57	—	—	Diabetes	7	—	—	—	—	1	2	2	2	—	—	—	—	13	40	169	167
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	—	—	1	—	—	2	1	8	—	—	23	—	—	114	159	1411	Cerebral hæmorrhage, etc.	36	—	—	—	—	1	10	7	18	—	—	—	—	13	201	592	1500
8	—	2	—	2	—	1	1	2	—	68	—	55	—	57	159	353	Other dis. of the nervous system	7	—	—	—	1	1	4	1	—	—	—	—	10	13	80	85	—
14	—	—	2	1	5	3	3	—	—	—	46	27	203	170	476	—	Valvular disease of heart	32	—	—	—	—	4	8	13	7	—	—	—	—	52	161	1100	583
22	—	2	2	—	2	3	7	6	—	68	46	—	81	170	1111	1058	Other heart disease	32	—	—	—	—	6	2	8	16	—	—	—	—	77	40	677	1333
13	—	—	—	—	4	2	4	3	—	—	—	—	162	114	635	529	Arterio-sclerosis	26	—	—	—	—	1	4	7	14	—	—	—	—	13	80	592	1167
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	176	Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	2	2	4	14	—	—	—	—	81	114	635	2469	Bronchitis	18	—	—	—	2	1	3	3	9	—	—	—	21	13	60	254	750
17	2	2	3	2	1	2	—	5	65	68	70	55	41	114	—	882	Pneumonia	19	—	—	1	2	4	7	1	4	—	—	26	21	52	141	85	333
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	1	—	2	—	—	—	—	—	57	—	353	Other dis. of respiratory system	9	—	—	—	1	1	1	—	6	—	—	—	10	13	20	—	500
2	—	—	1	1	—	—	—	—	—	—	23	27	—	—	—	—	Ulcer of stomach	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	167
2	—	—	—	1	—	1	—	—	—	—	—	27	—	57	—	—	Ulcer of duodenum	3	—	—	—	—	—	1	—	2	—	—	—	—	—	20	—	167
2	1	—	1	—	—	—	—	—	32	—	23	—	—	—	—	—	Appendicitis	3	—	—	—	1	1	1	—	—	—	—	—	10	13	20	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Hernia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	83
1	—	—	—	—	—	1	—	—	—	—	—	—	—	57	—	—	Intestinal obstruction	1	—	—	1	—	—	—	—	—	—	—	26	—	—	—	—	—
1	—	—	—	—	1	—	—	—	—	—	—	—	41	—	—	—	Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	—	—	1	—	3	1	1	—	—	—	27	—	170	159	176	Other dis. of digestive system	4	—	—	—	1	—	2	—	1	—	—	—	10	—	40	—	83
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Acute nephritis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	20	—	—
6	1	—	1	—	1	—	1	2	32	—	23	—	41	—	159	353	Chronic nephritis	24	—	—	—	—	5	10	3	6	—	—	—	—	65	201	254	500
2	—	—	—	—	1	—	—	1	—	—	—	—	41	—	—	176	Diseases of the prostate	4	—	—	—	—	—	—	—	4	—	—	—	—	—	—	—	333
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	176	Other genito-urinary diseases	4	—	—	—	—	—	2	—	2	—	—	—	—	—	40	—	167
10	—	—	—	—	—	—	2	8	—	—	—	—	—	—	317	1411	Old age	20	—	—	—	—	—	—	—	20	—	—	—	—	—	—	—	1667
3	—	1	—	—	1	1	—	—	—	34	—	—	41	57	—	—	Suicide	5	—	—	—	—	3	—	—	2	—	—	—	—	39	—	—	167
2	—	—	—	—	—	1	—	1	—	—	—	—	—	57	—	176	Accident	10	—	—	1	—	3	4	1	1	—	—	26	—	39	80	85	83
8	1	—	—	1	1	3	—	2	—	—	—	—	—	—	—	—	Other causes	18	—	1	—	3	3	3	1	7	—	—	—	—	—	—	—	—
247	12	18	20	13	42	50	29	63	389	611	465	355	1705	2839	4603	11111	All causes	390	—	1	8	21	58	93	55	154	—	298	207	218	748	1867	4653	12833
19,419	3,084	2,946	4,305	3,663	2,463	1,761	630	567									Years of life (Census population × 3)	29,058	99	336	3,873	9,636	7,752	4,980	1,182	1,200								
—	157	174	117	56	147	110	92	82									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	85	52	34	65	73	93	94								

Group 76:

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,150
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 113

Group 77:

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 620
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 61

OCCUPATIONAL GROUP 78.—CABINET MAKERS (473).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	40	1	—	2	5	7	10	5	10	7	—	9	23	43	80	103	177
Respiratory tuberculosis	171	9	17	37	45	36	17	5	5	64	139	169	205	221	137	103	88
Other tuberculosis	24	5	3	3	2	6	2	—	3	35	25	14	9	37	16	—	53
Syphilis, etc.	25	—	1	2	5	8	2	5	2	—	8	9	23	49	16	103	35
Syphilis	2	—	—	1	—	—	1	—	—	—	—	5	—	—	8	—	—
Tabes dorsalis	5	—	—	—	—	1	—	3	1	—	—	—	—	6	—	62	18
General paralysis of insane	9	—	—	—	5	3	1	—	—	—	—	—	23	18	8	—	—
Aneurysm	9	—	1	1	—	4	—	2	1	—	8	5	—	25	—	41	18
Cancer, all sites	236	1	—	4	9	30	80	41	71	7	—	18	41	184	643	846	1255
Skin	7	—	—	—	—	3	2	—	2	—	—	—	—	18	16	—	35
Lip	1	—	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—
Tongue	13	—	—	—	—	—	7	2	4	—	—	—	—	—	56	41	71
Œsophagus	19	—	—	—	1	2	9	2	5	—	—	—	5	12	72	41	88
Stomach	53	—	—	—	3	8	20	10	12	—	—	—	14	49	161	206	212
Other sites	143	1	—	4	5	17	41	27	48	7	—	18	23	104	330	557	848
Chronic rheumatism, etc., Gout	8	—	—	—	—	—	2	1	5	—	—	—	—	—	16	21	88
Diabetes	16	—	2	1	1	2	5	3	2	—	16	5	5	12	40	62	35
Alcoholism	1	—	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—
Cerebral hæmorrhage, etc.	122	—	—	1	4	6	28	18	65	—	—	5	18	37	225	372	1149
Other dis. of the nervous system	47	4	1	4	3	5	13	1	16	28	8	18	14	31	104	21	283
Valvular disease of heart	100	2	2	5	8	8	20	18	37	14	16	23	36	49	161	372	654
Other heart disease	195	—	3	3	8	14	34	34	99	—	25	14	36	86	273	702	1750
Arterio-sclerosis	105	—	—	—	—	3	17	24	61	—	—	—	—	18	137	495	1078
Other dis. of circulatory system	5	1	—	—	1	—	1	—	2	7	—	—	5	—	8	—	35
Bronchitis	166	1	—	1	6	16	27	27	88	7	—	5	27	98	217	557	1555
Pneumonia	92	1	5	4	11	15	19	14	23	7	41	18	50	92	153	289	407
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	34	1	—	1	4	5	2	7	14	7	—	5	18	31	16	144	247
Ulcer of stomach	13	—	1	—	2	4	4	1	1	—	8	—	9	25	32	21	18
Ulcer of duodenum	2	—	—	1	—	1	—	—	—	—	—	5	—	6	—	—	—
Appendicitis	8	1	1	—	2	1	1	1	1	7	8	—	9	6	8	21	18
Hernia	3	—	—	—	—	—	2	1	—	—	—	—	—	—	16	21	—
Intestinal obstruction	10	1	1	—	—	1	2	1	4	7	8	—	—	6	16	21	71
Cirrhosis of liver	5	—	—	—	—	—	3	1	1	—	—	—	—	—	24	21	18
Other dis. of digestive system	22	1	—	—	2	5	4	2	8	7	—	—	9	31	32	41	141
Acute nephritis	4	—	2	1	—	—	—	—	1	—	16	5	—	—	—	—	18
Chronic nephritis	46	—	1	1	2	6	8	11	17	—	8	5	9	37	64	227	300
Diseases of the prostate	17	—	—	—	—	—	3	1	13	—	—	—	—	—	24	21	230
Other genito-urinary diseases	16	—	—	—	—	—	1	3	12	—	—	—	—	—	8	62	212
Old age	127	—	—	—	—	—	3	2	122	—	—	—	—	—	24	41	2156
Suicide	32	1	2	2	1	7	11	5	3	7	16	9	5	43	88	103	53
Accident	36	1	2	1	3	7	4	4	14	7	16	5	14	43	32	83	247
Other causes	55	4	2	4	9	9	14	4	9	—	—	—	—	—	—	—	—
All causes	1,783	35	46	78	133	202	340	240	709	247	377	357	605	1240	2733	4954	12531
Years of life (Census population × 3)	109,473	14,163	12,201	21,876	21,999	16,290	12,441	4,845	5,658								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	100	107	89	95	107	106	99	92								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,026
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	103

OCCUPATIONAL GROUP 79.—CARPENTERS, COACH BUILDERS, PATTERN MAKERS AND SIMILAR OCCUPATIONS (474–477, 479, 480, 482).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	359	12	14	27	33	47	76	41	109	15	19	17	17	35	66	98	225
Respiratory tuberculosis	980	56	101	185	220	223	138	42	15	68	137	116	115	164	119	100	31
Other tuberculosis	121	19	16	32	18	9	17	5	5	23	22	20	9	7	15	12	10
Syphilis, etc.	192	—	1	3	40	51	57	15	25	—	1	2	21	37	49	36	52
Syphilis	15	—	1	—	2	6	3	1	2	—	1	—	1	4	3	2	4
Tabes dorsalis	46	—	—	—	2	13	17	8	6	—	—	—	1	10	15	19	12
General paralysis of insane	76	—	—	3	32	23	14	—	4	—	—	2	17	17	12	—	8
Aneurysm	55	—	—	—	4	9	23	6	13	—	—	—	2	7	20	14	27
Cancer, all sites	1,782	6	3	14	86	197	571	328	577	7	4	9	45	145	493	783	1191
Skin	50	—	—	—	2	4	11	14	19	—	—	—	1	3	9	33	39
Lip	12	—	—	—	—	—	1	3	8	—	—	—	—	—	1	7	17
Tongue	88	—	—	—	2	15	35	14	22	—	—	—	1	11	30	33	45
Œsophagus	144	—	—	1	2	23	54	25	39	—	—	1	1	17	47	60	80
Stomach	364	—	—	—	21	45	129	66	103	—	—	—	11	33	111	158	213
Other sites	1,124	6	3	13	59	110	341	206	386	7	4	8	31	81	294	492	796
Chronic rheumatism, etc., Gout	69	—	—	—	5	4	20	12	28	—	—	—	3	3	17	29	58
Diabetes	117	5	5	8	17	11	24	16	31	6	7	5	9	8	21	38	64
Alcoholism	2	—	—	—	1	—	1	—	—	—	—	—	1	—	1	—	—
Cerebral hæmorrhage, etc.	1,116	—	3	5	19	68	188	177	656	—	4	3	10	50	162	423	1354
Other dis. of the nervous system	361	10	8	28	48	48	71	47	101	12	11	18	25	35	61	112	208
Valvular disease of heart	865	2	13	21	59	92	189	143	346	2	18	13	31	68	163	342	714
Other heart disease	1,186	6	5	28	30	75	212	220	610	7	7	18	16	55	183	525	1259
Arterio-sclerosis	734	2	—	1	5	17	116	106	487	2	—	1	3	12	100	253	1005
Other dis. of circulatory system	37	2	—	1	5	8	8	2	11	2	—	1	3	6	7	5	23
Bronchitis	1,096	2	3	5	26	44	154	144	718	2	4	3	14	32	133	344	1481
Pneumonia	731	21	18	41	93	104	156	111	187	25	24	26	49	76	135	265	386
Chronic interstitial pneumonia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	1	—	—
Other dis. of respiratory system	180	—	3	9	9	23	42	23	71	—	4	6	5	17	36	55	146
Ulcer of stomach	77	2	3	4	20	9	20	8	11	2	4	3	10	7	17	19	23
Ulcer of duodenum	37	—	1	3	11	9	6	4	3	—	1	2	6	7	5	10	6
Appendicitis	62	7	8	9	9	10	16	1	2	8	11	6	5	7	14	2	4
Hernia	63	—	—	—	3	5	7	6	42	—	—	—	2	4	6	14	87
Intestinal obstruction	65	3	2	4	2	5	13	8	28	4	3	3	1	4	11	19	58
Cirrhosis of liver	53	—	—	1	3	10	18	9	12	—	—	1	2	7	16	21	25
Other dis. of digestive system	206	3	2	4	21	29	39	26	82	4	3	3	11	21	34	62	169
Acute nephritis	35	—	—	2	4	9	12	3	5	—	—	1	2	7	10	7	10
Chronic nephritis	454	3	—	17	24	58	124	59	169	4	—	11	13	43	107	141	349
Diseases of the prostate	184	—	—	—	—	2	23	29	130	—	—	—	—	1	20	69	268
Other genito-urinary diseases	111	—	—	3	5	9	17	20	57	—	—	2	3	7	15	48	118
Old age	1,176	—	—	—	—	—	9	48	1,119	—	—	—	—	—	8	115	2309
Suicide	172	1	3	11	32	32	44	22	27	1	4	7	17	24	38	53	56
Accident	355	20	20	31	36	50	66	37	95	24	27	19	19	37	57	88	196
Other causes	520	20	15	35	57	65	118	80	130	—	—	—	—	—	—	—	—
All causes	13,499	202	247	532	941	1,323	2,573	1,792	5,889	245	334	333	493	973	2220	4280	12151
Years of life (Census population × 3)	849,030	82,521	73,914	159,663	190,698	136,008	115,893	41,868	48,465								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	99	95	83	77	84	86	86	89								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	843
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	84

OCCUPATIONAL GROUP 80.—FRENCH POLISHERS (478).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 81.—SAWYERS ; WOOD TURNERS AND MACHINISTS (481, 486).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
12	—	—	2	4	—	2	3	1	—	—	18	31	—	44	220	86	Influenza	54	3	2	4	8	9	9	4	15	21	13	14	28	42	65	101	386
118	11	5	19	34	32	14	1	2	224	92	169	266	372	308	73	172	Respiratory tuberculosis ..	182	14	18	34	45	38	21	12	—	99	121	118	160	178	151	304	—
9	1	2	2	2	1	1	—	—	20	37	18	16	12	22	—	—	Other tuberculosis	12	3	1	2	—	2	1	2	1	21	7	7	—	9	7	51	26
15	—	—	—	4	5	4	1	1	—	—	—	31	58	88	73	86	Syphilis, etc.	26	—	—	1	7	7	7	2	2	—	—	3	25	33	50	51	52
1	—	—	—	1	—	—	—	—	—	—	—	8	—	—	—	—	Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	1	1	—	1	—	—	—	—	12	22	—	86	Tabes dorsalis	7	—	—	1	—	2	2	1	1	—	—	3	—	9	14	25	26
6	—	—	—	3	1	1	1	—	—	—	—	23	12	22	73	—	General paralysis of insane ..	8	—	—	—	4	2	1	—	1	—	—	—	14	9	7	—	26
5	—	—	—	—	3	2	—	—	—	—	—	—	35	44	—	—	Aneurysm	11	—	—	—	3	3	4	1	—	—	—	—	11	14	29	25	—
77	—	—	1	9	16	29	9	13	—	—	9	70	186	637	661	1117	Cancer, all sites	230	—	2	2	17	37	74	45	53	—	13	7	60	173	532	1142	1365
2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	73	86	Skin	7	—	—	—	1	—	3	1	2	—	—	—	4	—	22	25	52
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip	3	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	77
5	—	—	—	1	1	2	—	1	—	—	—	8	12	44	—	86	Tongue	8	—	—	—	—	1	4	—	3	—	—	—	—	5	29	—	77
12	—	—	—	—	4	6	1	1	—	—	—	—	46	132	73	86	Œsophagus	10	—	—	—	—	2	3	2	3	—	—	—	—	9	22	51	77
14	—	—	—	3	5	5	—	1	—	—	—	23	58	110	—	86	Stomach	51	—	1	—	4	10	19	7	10	—	7	—	14	47	137	178	258
44	—	—	1	5	6	16	7	9	—	—	9	39	70	352	514	773	Other sites	151	—	1	2	12	24	45	35	32	—	7	7	43	112	324	888	824
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic rheumatism, etc., Gout	10	—	—	—	1	—	2	2	5	—	—	—	4	—	14	51	129
7	—	1	1	1	—	1	1	2	—	18	9	8	—	22	73	172	Diabetes	13	1	1	3	—	3	2	2	1	7	7	10	—	14	14	51	26
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
35	—	—	1	1	8	8	4	13	—	—	9	8	93	176	294	1117	Cerebral hæmorrhage, etc. ..	100	—	—	1	2	5	21	23	48	—	—	3	7	23	151	583	1236
21	—	—	2	2	4	8	1	4	—	—	18	16	46	176	73	344	Other dis. of the nervous system	40	1	—	1	7	6	10	3	12	7	—	3	25	28	72	76	309
41	1	1	2	4	7	7	10	9	20	18	18	31	81	154	734	773	Valvular disease of heart ..	105	1	3	5	4	17	26	22	27	7	20	17	14	80	187	558	696
53	—	1	2	5	6	13	3	23	—	18	18	39	70	286	220	1976	Other heart disease	133	1	3	4	8	21	18	13	65	7	20	14	28	98	129	330	1674
26	—	—	—	1	2	8	6	9	—	—	—	8	23	176	441	773	Arterio-sclerosis	86	—	—	—	1	3	11	11	60	—	—	—	4	14	79	279	1546
1	—	—	—	—	1	—	—	—	—	—	—	—	12	—	—	—	Other dis. of circulatory system	2	—	1	—	—	—	—	1	—	—	7	—	—	—	—	25	—
58	1	2	2	7	8	8	7	23	20	37	18	55	93	176	514	1976	Bronchitis..	148	—	1	1	6	10	19	16	95	—	7	3	21	47	137	406	2447
48	2	1	4	12	7	13	6	3	41	18	36	94	81	286	441	258	Pneumonia	93	3	3	7	19	17	11	12	21	21	20	24	68	80	79	304	541
1	—	—	—	—	1	—	—	—	—	—	—	—	12	—	—	—	Chronic interstitial pneumonia ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	2	4	3	1	4	3	—	—	18	31	35	22	294	258	Other dis. of respiratory system	27	1	—	2	4	7	5	3	5	7	—	7	14	33	36	76	129
11	—	—	1	6	3	—	1	—	—	—	9	47	35	—	73	—	Ulcer of stomach	10	—	—	2	2	2	3	—	1	—	—	7	7	9	22	—	26
5	—	—	—	1	2	1	1	—	—	—	—	8	23	22	73	—	Ulcer of duodenum	4	—	—	1	—	2	—	1	—	—	—	3	—	9	—	25	—
4	2	—	—	—	1	1	—	—	41	—	—	—	12	22	—	—	Appendicitis	11	1	1	1	2	1	5	—	—	7	7	3	7	5	36	—	—
2	—	—	—	—	—	1	—	1	—	—	—	—	—	22	—	86	Hernia	6	—	—	—	—	—	1	—	5	—	—	—	—	—	7	—	129
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	86	Intestinal obstruction ..	4	—	—	—	—	1	1	1	1	—	—	—	—	5	7	25	26
3	1	—	—	—	—	2	—	—	20	—	—	—	—	44	—	—	Cirrhosis of liver	9	—	—	—	—	4	4	1	—	—	—	—	—	19	29	25	—
8	—	1	2	2	1	1	1	—	—	18	18	16	12	22	73	—	Other dis. of digestive system ..	26	2	3	1	3	2	5	1	9	14	20	3	11	9	36	25	232
3	2	—	—	—	—	—	—	1	41	—	—	—	—	—	—	86	Acute nephritis	3	—	—	—	3	—	—	—	—	—	—	—	11	—	—	—	—
27	1	—	2	2	3	8	2	9	20	—	18	16	35	176	147	773	Chronic nephritis..	45	2	1	—	3	8	7	7	17	14	7	—	11	37	50	178	438
4	—	—	—	—	—	2	2	—	—	—	—	—	—	44	147	—	Diseases of the prostate ..	11	—	—	—	—	—	—	2	9	—	—	—	—	—	—	51	232
6	—	—	—	1	1	—	1	3	—	—	—	8	12	—	73	258	Other genito-urinary diseases ..	13	—	—	1	1	1	3	1	6	—	—	3	4	5	22	25	155
40	—	—	—	—	—	—	4	36	—	—	—	—	—	—	294	3093	Old age	154	—	—	—	—	—	—	3	151	—	—	—	—	—	—	76	3890
14	—	—	3	7	2	2	—	—	—	—	27	55	23	44	—	—	Suicide	30	1	—	3	5	8	8	2	3	7	—	10	18	37	58	51	77
15	2	1	—	1	2	5	2	2	41	18	—	8	23	110	147	172	Accident	51	3	4	7	10	8	10	3	6	21	27	24	36	37	72	76	155
23	—	2	4	5	6	3	2	1	—	—	—	—	—	—	—	—	Other causes	62	3	2	7	6	12	11	7	14	—	—	—	—	—	—	—	—
705	24	17	52	115	122	143	72	160	489	314	462	899	1418	3142	5286	13746	All causes..	1,700	40	46	90	164	231	295	202	632	284	310	311	583	1081	2120	5124	16280
50,049	4,905	5,421	11,256	12,786	8,604	4,551	1,362	1,164									Years of life (Census population × 3)	129,069	14,097	14,859	28,893	28,107	21,375	13,914	3,942	3,882								
—	198	89	116	141	123	122	106	101									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	115	88	78	91	94	82	103	120								

Group 80		Group 81	
All Causes—ages 20–65 years.		All Causes—ages 20–65 years.	
Comparative Mortality Figure (Standardized Death-rate)	1,230	Comparative Mortality Figure (Standardized Death-rate)	868
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	124	Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	87

OCCUPATIONAL GROUP 82.—UPHOLSTERERS, COACH TRIMMERS AND BEDDING MAKERS (502, 504).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	21	2	1	3	2	1	4	2	6	28	13	21	17	11	71	116	325
Respiratory tuberculosis	98	4	10	26	18	23	12	4	1	56	129	184	149	264	212	233	54
Other tuberculosis	7	—	4	1	1	1	—	—	—	—	51	7	8	11	—	—	—
Syphilis, etc.	8	—	—	—	3	1	3	—	1	—	—	—	25	11	53	—	54
Syphilis	1	—	—	—	—	1	—	—	—	—	—	—	—	11	—	—	—
Tabes dorsalis	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	54
General paralysis of insane	4	—	—	—	1	—	3	—	—	—	—	—	8	—	53	—	—
Aneurysm	2	—	—	—	2	—	—	—	—	—	—	—	17	—	—	—	—
Cancer, all sites	110	2	1	1	8	12	33	20	33	28	13	7	66	138	583	1163	1786
Skin	3	—	—	—	—	1	—	—	2	—	—	—	—	11	—	—	108
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	6	—	—	—	—	1	1	1	3	—	—	—	—	11	18	58	162
Œsophagus	14	—	—	1	—	1	7	4	1	—	—	7	—	11	124	233	54
Stomach	19	—	—	—	3	2	7	3	4	—	—	—	25	23	124	175	216
Other sites	68	2	1	—	5	7	18	12	23	28	13	—	42	80	318	698	1245
Chronic rheumatism, etc., Gout	3	—	—	1	—	1	—	—	1	—	—	7	—	11	—	—	54
Diabetes	5	1	—	—	—	1	—	—	3	14	—	—	—	11	—	—	162
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	39	—	—	—	1	4	8	11	15	—	—	—	8	46	141	640	812
Other dis. of the nervous system	16	1	1	—	1	3	3	2	5	14	13	—	8	34	53	116	271
Valvular disease of heart	43	1	1	3	3	9	9	4	13	14	13	21	25	103	159	233	703
Other heart disease	45	—	3	3	1	5	8	8	17	—	39	21	8	57	141	465	920
Arterio-sclerosis	24	—	—	1	1	1	2	8	11	—	—	7	8	11	35	465	595
Other dis. of circulatory system	2	—	—	1	—	—	—	1	—	—	—	7	—	—	—	58	—
Bronchitis	56	—	—	1	—	5	10	13	27	—	—	7	—	57	177	756	1461
Pneumonia	45	—	2	5	7	8	6	4	13	—	26	35	58	92	106	233	703
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	4	—	—	1	1	—	1	—	1	—	—	7	8	—	18	—	54
Ulcer of stomach	3	—	—	—	1	—	1	—	1	—	—	—	8	—	18	—	54
Ulcer of duodenum	3	—	1	—	—	2	—	—	—	—	13	—	—	23	—	—	—
Appendicitis	3	—	—	—	1	—	2	—	—	—	—	—	8	—	35	—	—
Hernia	4	—	—	—	—	1	—	—	3	—	—	—	—	11	—	—	162
Intestinal obstruction	5	—	—	—	1	—	2	—	2	—	—	—	8	—	35	—	108
Cirrhosis of liver	4	—	—	—	—	1	—	1	2	—	—	—	—	11	—	58	108
Other dis. of digestive system	8	2	—	1	1	—	1	1	2	28	—	7	8	—	18	58	108
Acute nephritis	3	—	—	—	—	1	1	1	—	—	—	—	—	11	18	58	—
Chronic nephritis	21	2	—	—	3	2	5	2	7	28	—	—	25	23	88	116	379
Diseases of the prostate	5	—	—	—	—	1	1	1	2	—	—	—	—	11	18	58	108
Other genito-urinary diseases	3	—	—	—	—	—	2	1	—	—	—	—	—	—	35	58	—
Old age	35	—	—	—	—	—	—	—	35	—	—	—	—	—	—	—	1894
Suicide	10	1	—	1	3	3	1	—	1	14	—	7	25	34	18	—	54
Accident	12	1	1	1	2	2	3	1	1	14	13	7	17	23	53	58	54
Other causes	22	1	—	—	4	5	3	5	4	—	—	—	—	—	—	—	—
All causes	667	18	25	50	63	93	121	90	207	252	322	353	523	1069	2136	5236	11201
Years of life (Census population × 3)	59,043	7,131	7,770	14,172	12,042	8,697	5,664	1,719	1,848								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	102	91	88	82	92	83	105	82								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	864
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	86

OCCUPATIONAL GROUP 83.—PAPER MILL WORKERS (511–519).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	15	—	1	1	—	2	3	3	5	—	13	9	—	29	70	230	487
Respiratory tuberculosis	49	8	16	10	7	4	3	1	—	91	209	91	81	58	70	77	—
Other tuberculosis	5	—	2	—	3	—	—	—	—	—	26	—	35	—	—	—	—
Syphilis, etc.	6	—	—	1	—	1	3	1	—	—	—	9	—	14	70	77	—
Syphilis	1	—	—	1	—	—	—	—	—	—	—	9	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	3	—	—	—	—	1	1	1	—	—	—	—	—	14	23	77	—
Aneurysm	2	—	—	—	—	—	2	—	—	—	—	—	—	—	47	—	—
Cancer, all sites	51	—	—	2	5	11	16	9	8	—	—	18	58	158	372	690	780
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	1	1	—	—	—	—	—	—	14	23	—	—
Œsophagus	3	—	—	—	—	—	2	1	—	—	—	—	—	—	47	77	—
Stomach	15	—	—	—	—	5	4	3	3	—	—	—	—	72	93	230	292
Other sites	31	—	—	2	5	5	9	5	5	—	—	18	58	72	210	383	487
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	1	—	1	—	—	—	—	—	23	—	97
Diabetes	7	1	1	—	3	2	—	—	—	11	13	—	35	29	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	31	—	—	1	—	4	4	5	17	—	—	9	—	58	93	383	1657
Other dis. of the nervous system	14	3	1	—	1	2	4	1	2	34	13	—	12	29	93	77	195
Valvular disease of heart	41	—	1	2	8	5	6	10	9	—	13	18	93	72	140	766	877
Other heart disease	33	—	—	2	1	2	5	4	19	—	—	18	12	29	116	307	1852
Arterio-sclerosis	17	—	—	—	—	—	5	3	9	—	—	—	—	—	116	230	877
Other dis. of circulatory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	97
Bronchitis	32	—	1	1	2	—	5	7	16	—	13	9	23	—	116	536	1559
Pneumonia	33	2	2	6	5	4	6	3	5	23	26	55	58	58	140	230	487
Chronic interstitial pneumonia	1	—	—	1	—	—	—	—	—	—	—	9	—	—	—	—	—
Other dis. of respiratory system	4	—	—	1	—	—	1	—	2	—	—	9	—	—	23	—	195
Ulcer of stomach	2	—	1	—	1	—	—	—	—	—	13	—	12	—	—	—	—
Ulcer of duodenum	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	97
Appendicitis	6	2	—	2	—	2	—	—	—	23	—	18	—	29	—	—	—
Hernia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	97
Intestinal obstruction	3	—	—	—	1	—	1	—	1	—	—	—	12	—	23	—	97
Cirrhosis of liver	1	—	—	—	—	—	1	—	—	—	—	—	—	—	23	—	—
Other dis. of digestive system	7	—	—	—	—	4	—	—	3	—	—	—	—	58	—	—	292
Acute nephritis	3	—	1	2	—	—	—	—	—	—	13	18	—	—	—	—	—
Chronic nephritis	13	—	1	—	3	4	3	1	1	—	13	—	35	58	70	77	97
Diseases of the prostate	8	—	—	—	—	—	—	3	5	—	—	—	—	—	—	230	487
Other genito-urinary diseases	5	—	—	—	—	—	2	2	1	—	—	—	—	—	47	153	97
Old age	22	—	—	—	—	—	—	1	21	—	—	—	—	—	—	77	2047
Suicide	9	—	—	1	1	1	4	1	1	—	—	9	12	14	93	77	97
Accident	24	6	2	2	2	5	3	1	3	69	26	18	23	72	70	77	292
Other causes	13	3	—	1	2	2	4	1	—	—	—	—	—	—	—	—	—
All causes	460	25	30	36	45	55	80	57	132	285	391	328	523	791	1862	4368	12865
Years of life (Census population × 3)	49,560	8,757	7,665	10,962	8,598	6,951	4,296	1,305	1,026								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	115	111	82	82	68	72	88	95								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	761
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	78

OCCUPATIONAL GROUP 84.—HAND COMPOSITORS (522).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 85.—MACHINE COMPOSITORS (523).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
40	—	2	4	5	7	10	7	5	—	27	21	30	36	84	215	177	Influenza	2	—	—	—	—	—	1	1	—	—	—	—	—	—	79	565	—
162	10	15	37	31	38	22	7	2	211	204	194	185	198	186	215	71	Respiratory tuberculosis	32	—	4	6	10	10	2	—	—	—	269	124	212	249	158	—	—
16	1	—	4	4	1	3	—	3	21	—	21	24	5	25	—	106	Other tuberculosis	2	—	—	1	—	—	—	—	1	—	—	21	—	—	—	—	2564
24	—	—	1	4	8	6	3	2	—	—	5	24	42	51	92	71	Syphilis, etc.	2	—	—	—	—	1	1	—	—	—	—	—	—	25	79	—	—
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	31	—	Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	—	—	—	2	2	1	1	—	—	—	—	10	17	31	35	Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	79	—	—
12	—	—	1	4	5	1	—	1	—	—	5	24	26	8	—	35	General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	—	—	—	—	1	3	1	—	—	—	—	—	5	25	31	—	Aneurysm	1	—	—	—	—	1	—	—	—	—	—	—	—	25	—	—	—
165	—	—	3	2	33	59	27	41	—	—	16	12	172	498	829	1455	Cancer, all sites	17	—	—	—	3	7	2	2	3	—	—	—	64	174	158	1130	7692
3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	31	71	Skin	3	—	—	—	1	1	—	—	1	—	—	—	21	25	—	—	2564
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	4	2	1	—	—	—	—	—	34	61	35	Tongue	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	565	—
15	—	—	—	—	3	6	1	5	—	—	—	—	16	51	31	177	Œsophagus	1	—	—	—	—	—	1	—	—	—	—	—	—	—	79	—	—
26	—	—	1	1	6	7	5	6	—	—	5	6	31	59	154	213	Stomach	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	2564
114	—	—	2	1	24	42	18	27	—	—	11	6	125	354	553	958	Other sites	11	—	—	—	2	6	1	1	1	—	—	—	42	149	79	565	2564
8	—	—	—	—	2	—	2	4	—	—	—	—	10	—	61	142	Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18	—	—	2	3	4	3	4	2	—	—	11	18	21	25	123	71	Diabetes	1	—	—	—	—	—	1	—	—	—	—	—	—	—	79	—	—
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	31	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
108	—	—	—	1	12	26	28	41	—	—	—	6	62	219	860	1455	Cerebral hæmorrhage, etc.	6	—	—	—	—	3	—	1	2	—	—	—	—	75	—	565	5128
26	1	—	2	4	4	7	5	3	21	—	11	24	21	59	154	106	Other dis. of the nervous system	4	—	—	—	1	—	1	—	2	—	—	—	21	—	79	—	5128
71	1	—	2	4	13	22	10	19	21	—	11	24	68	186	307	674	Valvular disease of heart	9	—	—	1	3	1	2	—	2	—	—	21	64	25	158	—	5128
111	1	1	5	11	15	29	12	37	21	14	26	66	78	245	369	1313	Other heart disease	18	—	1	—	2	5	4	2	4	—	67	—	42	124	317	1130	10256
61	—	—	—	—	4	13	8	36	—	—	—	—	21	110	246	1278	Arterio-sclerosis	6	—	—	—	—	1	2	2	1	—	—	—	—	25	158	1130	2564
4	—	—	1	—	—	—	2	1	—	—	5	—	—	—	61	35	Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
108	—	1	1	4	10	24	12	56	—	14	5	24	52	202	369	1988	Bronchitis	9	—	—	—	1	—	3	2	3	—	—	—	21	—	238	1130	7692
78	3	—	9	10	13	16	11	16	63	—	47	60	68	135	338	568	Pneumonia	14	1	1	2	1	3	4	2	—	161	67	41	21	75	317	1130	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Other dis. of respiratory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18	1	—	—	1	4	3	1	8	21	—	—	6	21	25	31	284	Chronic interstitial pneumonia	3	—	—	—	1	2	—	—	—	—	—	—	21	50	—	—	—
7	—	—	—	—	7	—	—	—	—	—	—	—	36	—	—	—	Ulcer of stomach	1	—	—	—	1	—	—	—	—	—	—	—	21	—	—	—	—
6	1	1	—	—	1	1	1	1	21	14	—	—	5	8	31	35	Ulcer of duodenum	3	—	—	1	—	1	1	—	—	—	—	21	—	25	79	—	—
8	—	1	—	4	1	2	—	—	—	14	—	24	5	17	—	—	Appendicitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	2	1	—	—	—	—	—	—	61	35	Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	1	1	3	1	1	1	—	2	21	14	16	6	5	8	—	71	Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	2	4	1	—	—	—	—	—	10	34	31	—	Cirrhosis of liver	2	—	—	—	—	1	—	—	1	—	—	—	—	25	—	—	2564
17	—	—	1	2	4	5	2	3	—	—	5	12	21	42	61	106	Other dis. of digestive system	3	—	—	1	1	1	—	—	—	—	—	21	21	25	—	—	—
6	1	—	2	1	—	2	—	—	21	—	11	6	—	17	—	—	Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
48	1	—	2	3	8	20	2	12	21	—	11	18	42	169	61	426	Chronic nephritis	3	—	—	1	1	—	—	1	—	—	—	21	21	—	—	565	—
9	—	—	—	—	—	3	1	5	—	—	—	—	—	25	31	177	Diseases of the prostate	1	—	—	—	—	—	1	—	—	—	—	—	—	—	79	—	—
16	—	—	1	1	2	4	4	4	—	—	5	6	10	34	123	142	Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
52	—	—	—	—	—	1	3	48	—	—	—	—	—	8	92	1704	Old age	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	5128
10	—	—	1	3	1	2	1	2	—	—	5	18	5	17	31	71	Suicide	3	1	—	—	1	1	—	—	—	161	—	—	21	25	—	—	—
23	1	1	1	2	5	4	2	7	21	14	5	12	26	34	61	248	Accident	4	—	—	1	1	1	1	—	—	—	—	21	21	25	79	—	—
64	5	2	7	7	11	14	13	5	—	—	—	—	—	—	—	—	Other causes	6	—	—	2	2	—	1	1	—	—	—	—	—	—	—	—	—
1,305	28	25	89	108	211	306	172	366	590	341	468	645	1098	2581	5284	12993	All causes	153	2	6	16	29	38	27	14	21	322	404	330	616	945	2138	7910	53846
85,008	4,749	7,338	19,035	16,749	19,209	11,856	3,255	2,817	Years of life (Census population × 3)									17,166	621	1,485	4,854	4,707	4,020	1,263	177	39								
—	239	97	117	101	95	100	106	96	Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.									—	130	115	83	96	82	83	158	396								

Occupational Group 84:

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,007
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	100

Occupational Group 85:

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	867
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	88

OCCUPATIONAL GROUP 86.—PHOTOGRAPHERS (527).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 87.—PRINTING MACHINE MINDERS AND ASSISTANTS; MACHINE RULERS (529–531, 533).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
12	2	1	2	3	1	—	—	3	81	36	34	54	20	—	—	370	Influenza	47	5	—	7	6	9	7	8	5	23	—	23	23	42	65	257	141
37	4	2	9	11	7	3	—	1	161	71	154	199	143	109	—	123	Respiratory tuberculosis ..	226	27	23	46	48	42	32	7	1	124	135	150	182	198	297	225	28
4	—	1	—	2	—	1	—	—	—	36	—	36	—	36	—	—	Other tuberculosis	24	3	4	7	5	4	—	—	1	14	23	23	19	19	—	—	28
6	—	—	1	1	2	1	1	—	—	—	17	18	41	36	127	—	Syphilis, etc.	30	2	—	2	9	7	7	1	2	9	—	7	34	33	65	32	57
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	127	—	Syphilis	2	1	—	1	—	—	—	—	—	5	—	3	—	—	—	—	—
2	—	—	—	—	1	1	—	—	—	—	—	—	20	36	—	—	Tabes dorsalis	5	—	—	—	—	2	2	1	—	—	—	—	—	9	19	32	—
3	—	—	1	1	1	—	—	—	—	—	17	18	20	—	—	—	General paralysis of insane ..	16	1	—	—	9	3	3	—	—	5	—	—	34	14	28	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Aneurysm	7	—	—	1	—	2	2	—	2	—	—	3	—	9	19	—	57
46	—	—	1	4	3	9	12	17	—	—	17	72	61	326	1521	2099	Cancer, all sites	170	2	—	2	9	32	55	31	39	9	—	7	34	151	511	996	1104
2	—	—	—	1	—	—	1	—	—	—	—	18	—	—	127	—	Skin	2	—	—	—	—	—	1	—	1	—	—	—	—	—	9	—	28
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Tongue	10	—	—	—	—	3	4	1	2	—	—	—	—	14	37	32	57
7	—	—	—	—	—	2	2	3	—	—	—	—	—	72	253	370	Œsophagus	15	—	—	—	—	2	4	2	7	—	—	—	—	9	37	64	198
9	—	—	—	2	1	1	2	3	—	—	—	36	20	36	253	370	Stomach	38	—	—	—	4	9	10	9	6	—	—	—	15	42	93	289	170
28	—	—	1	1	2	6	7	11	—	—	17	18	41	217	887	1358	Other sites	105	2	—	2	5	18	36	19	23	9	—	7	19	85	335	610	651
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic rheumatism, etc., Gout	10	—	—	1	—	1	2	4	2	—	—	3	—	5	19	128	57
5	—	—	1	—	2	1	—	1	—	—	17	—	41	36	—	123	Diabetes	13	1	1	3	1	—	5	—	2	5	6	10	4	—	46	—	57
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	—	—	—	2	2	4	1	11	—	—	—	36	41	145	127	1358	Cerebral hæmorrhage, etc. ..	78	1	—	1	2	12	21	9	32	5	—	3	8	57	195	289	905
12	—	—	1	3	5	3	—	—	—	—	17	54	102	109	—	—	Other dis. of the nervous system	45	3	4	4	2	12	12	1	7	14	23	13	8	57	112	32	198
22	—	—	2	3	3	2	4	8	—	—	34	54	61	72	507	988	Valvular disease of heart ..	94	4	6	9	9	20	16	14	16	18	35	29	34	94	149	450	453
31	1	2	1	1	5	9	4	8	40	71	17	18	102	326	507	988	Other heart disease	118	1	—	8	11	10	28	19	41	5	—	26	42	47	260	610	1160
18	—	—	—	—	—	3	4	11	—	—	—	—	—	109	507	1358	Arterio-sclerosis	48	—	—	—	—	2	16	8	22	—	—	—	—	9	149	257	623
1	—	—	—	—	1	—	—	—	—	—	—	—	20	—	—	—	Other dis. of circulatory system	4	—	—	—	—	1	2	—	1	—	—	—	—	5	19	—	28
18	—	—	1	—	1	2	3	11	—	—	17	—	20	72	380	1358	Bronchitis	107	—	—	2	10	8	23	16	48	—	—	7	38	38	214	514	1358
16	—	1	—	3	4	3	1	4	—	36	—	54	82	109	127	494	Pneumonia	81	1	4	9	10	23	20	3	11	5	23	29	38	108	186	96	311
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia ..	1	—	—	—	—	—	1	—	—	—	—	—	—	—	9	—	—
7	—	1	—	1	1	—	2	2	—	36	—	18	20	—	253	247	Other dis. of respiratory system	12	—	—	2	—	6	1	3	—	—	—	7	—	28	9	96	—
1	—	—	—	1	—	—	—	—	—	—	—	18	—	—	—	—	Ulcer of stomach	10	—	—	1	2	2	5	—	—	—	—	3	8	9	46	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Ulcer of duodenum	7	—	—	1	1	3	2	—	—	—	—	3	4	14	19	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Appendicitis	8	—	1	5	—	1	1	—	—	—	6	16	—	5	9	—	—
1	—	—	—	—	—	1	—	—	—	—	—	—	—	36	—	—	Hernia	3	—	—	—	—	—	2	—	1	—	—	—	—	—	19	—	28
2	—	—	1	—	1	—	—	—	—	—	17	—	20	—	—	—	Intestinal obstruction ..	4	—	—	—	—	2	1	—	1	—	—	—	—	9	9	—	28
4	—	—	1	1	2	—	—	—	—	—	17	18	41	—	—	—	Cirrhosis of liver	3	—	—	—	—	—	3	—	—	—	—	—	—	—	28	—	—
4	—	—	—	—	1	1	—	2	—	—	—	—	20	36	—	247	Other dis. of digestive system ..	18	1	1	2	2	3	2	1	6	5	6	7	8	14	19	32	170
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Acute nephritis	5	—	—	—	1	2	—	1	1	—	—	—	4	9	—	32	28
11	—	—	—	1	1	4	3	2	—	—	—	18	20	145	380	247	Chronic nephritis	46	1	3	—	4	9	11	5	13	5	18	—	15	42	102	161	368
4	—	—	—	—	—	1	1	2	—	—	—	—	—	36	127	247	Diseases of the prostate ..	14	—	—	—	—	—	2	3	9	—	—	—	—	—	19	96	255
2	—	—	—	—	1	—	—	1	—	—	—	—	20	—	—	123	Other genito-urinary diseases ..	9	—	1	1	2	1	1	3	—	—	6	3	8	5	9	96	—
13	—	—	—	—	—	1	1	11	—	—	—	—	—	36	127	1358	Old age	64	—	—	—	—	—	3	2	59	—	—	—	—	—	28	64	1669
6	—	—	—	1	2	2	1	—	—	—	—	18	41	72	127	—	Suicide	20	—	—	2	4	4	6	2	2	—	—	7	15	19	56	64	57
9	—	—	1	2	—	2	2	2	—	—	17	36	—	72	253	247	Accident	37	4	5	3	2	5	7	1	10	18	29	10	8	24	65	32	285
9	—	—	2	1	2	1	—	3	—	—	—	—	—	—	—	—	Other causes	58	3	3	10	11	12	10	1	8	—	—	—	—	—	—	—	—
321	7	8	24	41	47	54	40	100	282	285	410	740	959	1957	5070	12346	All causes	1,414	59	56	128	151	233	304	143	340	271	328	417	572	1098	2826	4592	9621
25,944	2,481	2,811	5,853	5,538	4,902	2,760	789	810									Years of life (Census population × 3)	134,589	21,780	17,091	30,690	26,394	21,228	10,758	3,114	3,534								
—	114	81	103	116	83	76	102	91									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	110	93	105	90	95	110	92	71								

Group 86:

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 882
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 89

Group 87:

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,008
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 100

OCCUPATIONAL GROUP 88.—BOOKBINDERS AND PATTERN CARD MAKERS (532, 534).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	12	1	—	1	1	1	5	2	1	32	—	17	19	19	145	172	82
Respiratory tuberculosis	49	6	6	9	13	8	4	1	2	194	221	149	250	154	116	86	164
Other tuberculosis	3	2	—	—	1	—	—	—	—	65	—	—	19	—	—	—	—
Syphilis, etc.	13	—	1	—	—	5	3	1	3	—	37	—	—	97	87	86	246
Syphilis	3	—	—	—	—	1	1	1	—	—	—	—	—	19	29	86	—
Tabes dorsalis	2	—	—	—	—	—	1	—	1	—	—	—	—	—	29	—	82
General paralysis of insane	5	—	1	—	—	3	—	—	1	—	37	—	—	58	—	—	82
Aneurysm	3	—	—	—	—	1	1	—	1	—	—	—	—	19	29	—	82
Cancer, all sites	64	—	1	2	1	15	24	11	10	—	37	33	19	290	697	947	819
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	86	—
Œsophagus	10	—	—	—	—	3	5	2	—	—	—	—	—	58	145	172	—
Stomach	14	—	—	—	1	3	5	4	1	—	—	—	19	58	145	345	82
Other sites	39	—	1	2	—	9	14	4	9	—	37	33	—	174	406	345	737
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	82
Diabetes	5	—	—	1	—	1	1	—	2	—	—	17	—	19	29	—	164
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	24	—	—	—	—	1	5	4	14	—	—	—	—	19	145	345	1147
Other dis. of the nervous system	9	—	1	1	—	3	2	1	1	—	37	17	—	58	58	86	82
Valvular disease of heart	37	1	1	2	2	9	5	5	12	32	37	33	38	174	145	431	983
Other heart disease	37	1	1	1	—	1	8	8	17	32	37	17	—	19	232	689	1392
Arterio-sclerosis	17	—	—	—	—	1	4	4	8	—	—	—	—	19	116	345	655
Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	29	—	—
Bronchitis	37	—	—	—	3	—	8	6	20	—	—	—	58	—	232	517	1638
Pneumonia	25	—	2	3	1	8	3	2	6	—	74	50	19	154	87	172	491
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	6	—	1	—	1	1	2	—	1	—	37	—	19	19	58	—	82
Ulcer of stomach	1	—	—	—	1	—	—	—	—	—	—	—	19	—	—	—	—
Ulcer of duodenum	6	—	—	—	2	1	3	—	—	—	—	—	38	19	87	—	—
Appendicitis	3	1	—	—	—	—	—	2	—	32	—	—	—	—	—	172	—
Hernia	1	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—	—
Intestinal obstruction	1	—	—	1	—	—	—	—	—	—	—	17	—	—	—	—	—
Cirrhosis of liver	2	—	—	—	1	—	—	—	1	—	—	—	19	—	—	—	82
Other dis. of digestive system	8	—	—	2	1	1	2	—	2	—	—	33	19	19	58	—	164
Acute nephritis	4	1	1	—	—	1	1	—	—	32	37	—	—	19	29	—	—
Chronic nephritis	9	—	—	2	—	1	2	2	2	—	—	33	—	19	58	172	164
Diseases of the prostate	4	—	—	—	—	—	1	—	3	—	—	—	—	—	29	—	246
Other genito-urinary diseases	4	—	—	—	—	2	—	1	1	—	—	—	—	39	—	86	82
Old age	32	—	—	—	—	—	1	1	30	—	—	—	—	—	29	86	2457
Suicide	7	—	—	—	1	4	2	—	—	—	—	—	19	77	58	—	—
Accident	7	—	—	—	—	—	2	2	3	—	—	—	—	—	58	172	246
Other causes	18	—	2	2	1	2	6	1	4	—	—	—	—	—	—	—	—
All causes	447	13	17	27	30	67	95	54	144	421	626	448	576	1293	2758	4651	11794
Years of life (Census population × 3)	28,050	3,087	2,718	6,030	5,208	5,181	3,444	1,161	1,221								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	170	178	112	90	112	107	93	87								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,098
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	110

OCCUPATIONAL GROUP 89.—EMPLOYERS AND MANAGERS IN THE BUILDING, CONTRACTING AND DECORATING TRADES ; CLERKS OF WORKS (560, 562, 563, 590).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	121	—	—	6	12	14	21	20	48	—	—	25	24	30	57	156	302
Respiratory tuberculosis	197	—	5	15	56	56	43	11	11	—	92	63	112	119	117	86	69
Other tuberculosis	19	—	—	1	6	4	4	2	2	—	—	4	12	9	11	16	13
Syphilis, etc.	59	—	—	—	4	15	21	9	10	—	—	—	8	32	57	70	63
Syphilis	6	—	—	—	1	2	1	2	—	—	—	—	2	4	3	16	—
Tabes dorsalis	17	—	—	—	1	3	6	4	3	—	—	—	2	6	16	31	19
General paralysis of insane	18	—	—	—	2	5	7	2	2	—	—	—	4	11	19	16	13
Aneurysm	18	—	—	—	—	5	7	1	5	—	—	—	—	11	19	8	31
Cancer, all sites	753	—	—	7	23	69	205	156	293	—	—	29	46	147	558	1214	1842
Skin	18	—	—	—	1	—	—	4	13	—	—	—	2	—	—	31	82
Lip	7	—	—	—	—	—	2	2	3	—	—	—	—	—	5	16	19
Tongue	25	—	—	—	1	4	6	4	10	—	—	—	2	9	16	31	63
Œsophagus	40	—	—	—	—	6	12	6	16	—	—	—	—	13	33	47	101
Stomach	155	—	—	—	3	20	46	38	48	—	—	—	6	43	125	296	302
Other sites	508	—	—	7	18	39	139	102	203	—	—	29	36	83	378	794	1276
Chronic rheumatism, etc., Gout	31	—	—	—	—	2	9	9	11	—	—	—	—	4	25	70	69
Diabetes	77	—	—	1	5	7	18	10	36	—	—	4	10	15	49	78	226
Alcoholism	5	—	—	—	1	3	1	—	—	—	—	—	2	6	3	—	—
Cerebral hæmorrhage, etc.	526	—	1	—	10	32	99	80	304	—	18	—	20	68	270	623	1912
Other dis. of the nervous system	110	—	—	4	12	10	39	13	32	—	—	17	24	21	106	101	201
Valvular disease of heart	364	—	—	7	24	31	71	62	169	—	—	29	48	66	193	483	1063
Other heart disease	575	—	2	3	16	27	111	105	311	—	37	13	32	57	302	817	1956
Arterio-sclerosis	314	—	—	—	4	17	49	43	201	—	—	—	8	36	133	335	1264
Other dis. of circulatory system	21	—	2	—	1	1	7	—	10	—	37	—	2	2	19	—	63
Bronchitis	370	—	—	1	6	25	45	42	251	—	—	4	12	53	123	327	1578
Pneumonia	247	2	—	7	25	33	66	34	80	41	—	29	50	70	180	265	503
Chronic interstitial pneumonia	6	—	—	—	—	—	1	3	2	—	—	—	—	—	3	23	13
Other dis. of respiratory system	85	—	—	2	6	13	16	9	39	—	—	8	12	28	44	70	245
Ulcer of stomach	33	—	—	2	5	8	8	4	6	—	—	8	10	17	22	31	38
Ulcer of duodenum	18	—	—	1	2	3	6	3	3	—	—	4	4	6	16	23	19
Appendicitis	26	1	—	1	3	11	4	3	3	21	—	4	6	23	11	23	19
Hernia	21	—	—	—	1	2	2	2	14	—	—	—	2	4	5	16	88
Intestinal obstruction	27	—	—	2	2	2	7	7	7	—	—	8	4	4	19	54	44
Cirrhosis of liver	47	—	—	—	2	6	20	10	9	—	—	—	4	13	54	78	57
Other dis. of digestive system	90	—	—	1	8	12	21	8	40	—	—	4	16	26	57	62	252
Acute nephritis	12	—	—	1	—	2	4	1	4	—	—	4	—	4	11	8	25
Chronic nephritis	229	—	—	3	10	30	62	34	90	—	—	13	20	64	169	265	566
Diseases of the prostate	100	—	—	—	—	—	14	6	80	—	—	—	—	—	38	47	503
Other genito-urinary diseases	64	—	—	—	1	3	15	6	39	—	—	—	2	6	41	47	245
Old age	402	—	—	—	—	—	1	5	396	—	—	—	—	—	3	39	2490
Suicide	63	—	—	2	11	25	16	4	5	—	—	8	22	53	44	31	31
Accident	156	3	—	13	25	38	33	17	27	62	—	54	50	81	90	132	170
Other causes	168	—	2	5	20	18	51	28	44	—	—	—	—	—	—	—	—
All causes	5,336	6	12	85	301	519	1,090	746	2,577	124	221	356	604	1103	2967	5806	16204
Years of life (Census population × 3)	196,515	4,830	5,442	23,862	49,857	47,040	36,732	12,849	15,903								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	50	63	89	95	95	115	116	119								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,005
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	104

OCCUPATIONAL GROUP 90.—FOREMEN AND GANGERS (BUILDING AND CONTRACTING) (561).

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	
35	—	—	—	4	8	10	4	9	—	—	—	24	42	75	120	337	Influenza
26	—	—	1	5	14	4	2	—	—	—	22	30	73	30	60	—	Respiratory tuberculosis
4	—	—	—	1	2	—	1	—	—	—	—	6	10	—	30	—	Other tuberculosis
17	—	—	—	—	7	8	—	2	—	—	—	—	37	60	—	75	Syphilis, etc.
1	—	—	—	—	1	—	—	—	—	—	—	—	5	—	—	—	Syphilis
3	—	—	—	—	1	2	—	—	—	—	—	—	5	15	—	—	Tabes dorsalis
5	—	—	—	—	3	1	—	1	—	—	—	—	16	8	—	37	General paralysis of insane
8	—	—	—	—	2	5	—	1	—	—	—	—	10	38	—	37	Aneurysm
145	—	—	1	7	31	36	30	40	—	—	22	42	162	270	899	1498	Cancer, all sites
6	—	—	—	—	1	—	1	4	—	—	—	—	5	—	30	150	Skin
3	—	—	—	—	—	1	1	1	—	—	—	—	—	8	30	37	Lip
4	—	—	—	—	—	1	1	2	—	—	—	—	—	8	30	75	Tongue
6	—	—	—	—	—	3	—	3	—	—	—	—	—	23	—	112	Œsophagus
40	—	—	—	2	7	13	8	10	—	—	—	12	37	98	240	375	Stomach
86	—	—	1	5	23	18	19	20	—	—	22	30	120	135	570	749	Other sites
2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	75	Chronic rheumatism, etc., Gout
16	—	—	—	1	3	7	3	2	—	—	—	6	16	53	90	75	Diabetes
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism
71	—	—	—	2	12	16	8	33	—	—	—	12	63	120	240	1236	Cerebral hæmorrhage, etc.
22	—	—	—	3	4	7	3	5	—	—	—	18	21	53	90	187	Other dis. of the nervous system
67	—	1	2	1	3	19	8	33	—	178	43	6	16	143	240	1236	Valvular disease of heart
102	—	—	—	3	8	22	17	52	—	—	—	18	42	165	510	1948	Other heart disease
54	—	—	—	—	3	8	7	36	—	—	—	—	16	60	210	1348	Arterio-sclerosis
4	—	—	—	—	3	1	—	—	—	—	—	—	16	8	—	—	Other dis. of circulatory system
103	—	—	—	2	3	17	19	62	—	—	—	12	16	128	570	2322	Bronchitis
64	—	—	2	6	14	25	9	8	—	—	43	36	73	188	270	300	Pneumonia
2	—	—	—	—	—	2	—	—	—	—	—	—	—	15	—	—	Chronic interstitial pneumonia
15	—	—	—	3	4	3	4	1	—	—	—	18	21	23	120	37	Other dis. of respiratory system
10	—	—	—	1	3	5	—	1	—	—	—	6	16	38	—	37	Ulcer of stomach
4	—	—	—	1	1	2	—	—	—	—	—	6	5	15	—	—	Ulcer of duodenum
2	—	—	—	—	1	1	—	—	—	—	—	—	5	8	—	—	Appendicitis
8	—	—	—	2	—	1	2	3	—	—	—	12	—	8	60	112	Hernia
8	—	—	—	—	—	3	3	2	—	—	—	—	—	23	90	75	Intestinal obstruction
11	—	—	—	—	2	5	3	1	—	—	—	—	10	38	90	37	Cirrhosis of liver
17	—	—	—	2	4	4	1	6	—	—	—	12	21	30	30	225	Other dis. of digestive system
3	—	—	—	1	—	1	—	1	—	—	—	6	—	8	—	37	Acute nephritis
36	—	—	2	1	5	11	7	10	—	—	43	6	26	83	210	375	Chronic nephritis
16	—	—	—	—	—	2	2	12	—	—	—	—	—	15	60	449	Diseases of the prostate
5	—	—	—	1	1	1	1	1	—	—	—	6	5	8	30	37	Other genito-urinary diseases
61	—	—	—	—	—	—	2	59	—	—	—	—	—	—	60	2210	Old age
14	—	—	—	1	7	5	—	1	—	—	—	6	37	38	—	37	Suicide
79	—	—	3	13	23	31	4	5	—	—	65	78	120	233	120	187	Accident
42	—	—	1	4	12	14	7	4	—	—	—	—	—	—	—	—	Other causes
1,065	—	1	12	65	178	271	147	391	—	178	259	389	932	2033	4406	14644	All causes
60,447	84	561	4,632	16,728	19,107	13,329	3,336	2,670									Years of life (Census population × 3)
—	—	51	65	61	81	79	88	108									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	732
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	76

OCCUPATIONAL GROUP 91.—BRICKLAYERS (565).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	117	1	1	4	14	15	26	25	31	7	8	11	18	27	62	173	231
Respiratory tuberculosis	319	7	9	28	95	95	57	18	10	47	69	80	125	169	135	124	75
Other tuberculosis	21	2	2	1	2	5	3	1	5	13	15	3	3	9	7	7	37
Syphilis, etc.	81	—	—	2	18	27	17	5	12	—	—	6	24	48	40	35	90
Syphilis	15	—	—	—	4	1	6	3	1	—	—	—	5	2	14	21	7
Tabes dorsalis	17	—	—	1	1	7	2	2	4	—	—	3	1	12	5	14	30
General paralysis of insane	28	—	—	1	12	12	3	—	—	—	—	3	16	21	7	—	—
Aneurysm	21	—	—	—	1	7	6	—	7	—	—	—	1	12	14	—	52
Cancer, all sites	701	—	—	5	25	95	221	139	216	—	—	14	33	169	524	961	1613
Skin	24	—	—	—	1	3	6	3	11	—	—	—	1	5	14	21	82
Lip	8	—	—	—	—	1	2	2	3	—	—	—	—	2	5	14	22
Tongue	49	—	—	—	1	5	22	9	12	—	—	—	1	9	52	62	90
Œsophagus	58	—	—	—	2	10	22	11	13	—	—	—	3	18	52	76	97
Stomach	133	—	—	2	6	20	42	22	41	—	—	6	8	36	100	152	306
Other sites	429	—	—	3	15	56	127	92	136	—	—	9	20	100	301	636	1016
Chronic rheumatism, etc., Gout	21	—	—	—	—	5	10	4	2	—	—	—	—	9	24	28	15
Diabetes	31	—	—	2	2	3	10	3	11	—	—	6	3	5	24	21	82
Alcoholism	2	—	—	—	1	1	—	—	—	—	—	—	1	2	—	—	—
Cerebral hæmorrhage, etc.	326	—	1	—	6	19	65	57	178	—	8	—	8	34	154	394	1329
Other dis. of the nervous system	94	1	3	3	13	17	14	17	26	7	23	9	17	30	33	117	194
Valvular disease of heart	323	—	2	13	30	40	70	51	117	—	15	37	39	71	166	352	874
Other heart disease	378	—	2	4	18	31	75	66	182	—	15	11	24	55	178	456	1359
Arterio-sclerosis	222	—	—	—	—	10	36	44	132	—	—	—	—	18	85	304	986
Other dis. of circulatory system	7	—	—	—	—	2	4	—	1	—	—	—	—	4	9	—	7
Bronchitis	438	—	—	2	8	33	68	72	255	—	—	6	11	59	161	498	1904
Pneumonia	313	5	3	13	50	56	78	39	69	33	23	37	66	100	185	270	515
Chronic interstitial pneumonia	3	—	—	—	—	1	2	—	—	—	—	—	—	2	5	—	—
Other dis. of respiratory system	70	—	1	—	8	16	13	9	23	—	8	—	11	29	31	62	172
Ulcer of stomach	31	1	—	3	7	8	6	1	5	7	—	9	9	14	14	7	37
Ulcer of duodenum	10	—	—	—	3	1	5	1	—	—	—	—	4	2	12	7	—
Appendicitis	21	2	1	—	4	7	4	1	2	13	8	—	5	12	9	7	15
Hernia	23	—	—	—	2	2	3	5	11	—	—	—	3	4	7	35	82
Intestinal obstruction	23	—	1	—	—	1	4	5	12	—	8	—	—	2	9	35	90
Cirrhosis of liver	29	—	—	—	3	8	10	4	4	—	—	—	4	14	24	28	30
Other dis. of digestive system	70	—	1	1	8	7	19	9	25	—	8	3	11	12	45	62	187
Acute nephritis	11	—	—	1	1	5	2	—	2	—	—	3	1	9	5	—	15
Chronic nephritis	117	—	—	4	10	15	34	15	39	—	—	11	13	27	81	104	291
Diseases of the prostate	56	—	—	—	—	—	9	15	32	—	—	—	—	—	21	104	239
Other genito-urinary diseases	39	—	—	—	3	4	10	6	16	—	—	—	4	7	24	41	119
Old age	308	—	—	—	—	—	5	11	292	—	—	—	—	—	12	76	2180
Suicide	70	1	—	—	17	13	17	15	7	7	—	—	22	23	40	104	52
Accident	171	4	2	9	28	33	38	27	30	27	15	26	37	59	90	187	224
Other causes	139	4	3	8	18	14	35	21	36	—	—	—	—	—	—	—	—
All causes	4,585	28	32	103	394	589	970	686	1,783	187	245	292	517	1049	2300	4741	13314
Years of life (Census population × 3)	265,575	14,943	13,047	35,220	76,197	56,133	42,174	14,469	13,392								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	76	70	73	81	91	89	95	98								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	854
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	87

OCCUPATIONAL GROUP 92.—PLASTERERS (567).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	26	—	—	—	5	6	6	1	8	—	—	—	28	56	61	30	245
Respiratory tuberculosis	85	2	1	8	24	22	18	8	2	60	30	95	135	205	184	240	61
Other tuberculosis	5	—	—	2	1	—	—	1	1	—	—	24	6	—	—	30	31
Syphilis, etc.	18	—	—	—	4	3	10	—	1	—	—	—	23	28	102	—	31
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	6	—	—	—	—	1	4	—	1	—	—	—	—	9	41	—	31
General paralysis of insane	8	—	—	—	4	—	4	—	—	—	—	—	23	—	41	—	—
Aneurysm	4	—	—	—	—	2	2	—	—	—	—	—	—	19	20	—	—
Cancer, all sites	168	—	—	3	8	19	64	24	50	—	—	36	45	177	654	721	1529
Skin	6	—	—	—	—	1	1	—	4	—	—	—	—	9	10	—	122
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	11	—	—	—	—	2	6	1	2	—	—	—	—	19	61	30	61
Œsophagus	11	—	—	—	—	2	4	2	3	—	—	—	—	19	41	60	92
Stomach	42	—	—	3	3	6	17	6	7	—	—	36	17	56	174	180	214
Other sites	98	—	—	—	5	8	36	15	34	—	—	—	28	75	368	451	1040
Chronic rheumatism, etc., Gout	3	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	92
Diabetes	5	—	—	1	—	2	—	2	—	—	—	12	—	19	—	60	—
Alcoholism	1	—	—	—	1	—	—	—	—	—	—	—	6	—	—	—	—
Cerebral hæmorrhage, etc.	90	—	—	—	4	4	18	17	47	—	—	—	23	37	184	511	1437
Other dis. of the nervous system	21	—	—	—	5	1	7	1	7	—	—	—	28	9	72	30	214
Valvular disease of heart	70	1	1	—	13	5	16	9	25	30	30	—	73	47	164	271	765
Other heart disease	104	—	—	4	8	8	19	20	45	—	—	48	45	75	194	601	1376
Arterio-sclerosis	49	—	—	—	—	—	10	9	30	—	—	—	—	—	102	271	917
Other dis. of circulatory system	3	—	—	—	—	—	2	—	1	—	—	—	—	—	20	—	31
Bronchitis	119	—	—	—	4	4	24	20	67	—	—	—	23	37	245	601	2049
Pneumonia	87	1	1	6	16	15	15	10	23	30	30	71	90	140	153	301	703
Chronic interstitial pneumonia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	31
Other dis. of respiratory system	18	—	—	—	4	4	3	3	4	—	—	—	23	37	31	90	122
Ulcer of stomach	6	—	—	1	2	1	1	1	—	—	—	12	11	9	10	30	—
Ulcer of duodenum	4	—	—	—	1	1	2	—	—	—	—	—	6	9	20	—	—
Appendicitis	7	2	3	—	1	—	—	—	1	60	90	—	6	—	—	—	31
Hernia	6	—	—	—	—	1	—	3	2	—	—	—	—	9	—	90	61
Intestinal obstruction	6	—	—	1	—	1	1	1	2	—	—	12	—	9	10	30	61
Cirrhosis of liver	5	—	—	—	—	1	1	—	3	—	—	—	—	9	10	—	92
Other dis. of digestive system	14	—	—	—	1	—	2	2	9	—	—	—	6	—	20	60	275
Acute nephritis	5	1	—	—	2	1	1	—	—	30	—	—	11	9	10	—	—
Chronic nephritis	44	—	1	1	4	4	13	12	9	—	30	12	23	37	133	361	275
Diseases of the prostate	14	—	—	—	—	—	1	2	11	—	—	—	—	—	10	60	336
Other genito-urinary diseases	9	—	—	—	1	1	4	1	2	—	—	—	6	9	41	30	61
Old age	71	—	—	—	—	—	—	4	67	—	—	—	—	—	—	120	2049
Suicide	16	—	—	—	4	3	5	2	2	—	—	—	23	28	51	60	61
Accident	41	1	—	3	6	8	14	3	6	30	—	36	34	75	143	90	183
Other causes	37	—	2	—	6	9	6	5	9	—	—	—	—	—	—	—	—
All causes	1,158	8	9	30	125	124	263	161	438	242	271	357	704	1155	2689	4839	13394
Years of life (Census population × 3)	59,901	3,306	3,321	8,403	17,760	10,734	9,780	3,327	3,270								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	98	77	89	110	100	105	97	99								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,011
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 103

OCCUPATIONAL GROUP 93.—SLATERS AND TILERS (570).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	4	—	—	—	1	2	—	—	1	—	—	—	23	58	—	—	146
Respiratory tuberculosis	28	—	1	—	9	7	8	3	—	—	99	—	207	203	298	366	—
Other tuberculosis	3	—	—	—	1	2	—	—	—	—	—	—	23	58	—	—	—
Syphilis, etc.	5	—	—	—	1	2	2	—	—	—	—	—	23	58	74	—	—
Syphilis	1	—	—	—	1	—	—	—	—	—	—	—	23	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	3	—	—	—	—	2	1	—	—	—	—	—	—	58	37	—	—
Aneurysm	1	—	—	—	—	—	1	—	—	—	—	—	—	—	37	—	—
Cancer, all sites	45	—	—	—	1	8	22	5	9	—	—	—	23	232	818	611	1316
Skin	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	122	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	3	—	—	—	—	1	2	—	—	—	—	—	—	29	74	—	—
Œsophagus	2	—	—	—	—	1	1	—	—	—	—	—	—	29	37	—	—
Stomach	7	—	—	—	—	1	3	1	2	—	—	—	—	29	111	122	292
Other sites	32	—	—	—	1	5	16	3	7	—	—	—	23	145	594	366	1023
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	146
Diabetes	2	—	—	1	—	—	—	1	—	—	—	45	—	—	—	122	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	26	—	—	—	—	1	6	6	13	—	—	—	—	29	223	733	1901
Other dis. of the nervous system	7	—	—	—	—	2	1	—	4	—	—	—	—	58	37	—	585
Valvular disease of heart	24	—	—	—	4	5	9	3	3	—	—	—	92	145	334	366	439
Other heart disease	24	—	—	1	1	1	2	4	15	—	—	45	23	29	74	488	2193
Arterio-sclerosis	14	—	—	—	—	1	1	3	9	—	—	—	—	29	37	366	1316
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	27	—	—	—	1	—	5	3	18	—	—	—	23	—	186	366	2632
Pneumonia	23	1	1	1	3	4	7	3	3	113	99	45	69	116	260	366	439
Chronic interstitial pneumonia	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	292
Other dis. of respiratory system	4	—	—	—	1	1	1	—	1	—	—	—	23	29	37	—	146
Ulcer of stomach	1	—	—	—	1	—	—	—	—	—	—	—	23	—	—	—	—
Ulcer of duodenum	1	—	—	—	1	—	—	—	—	—	—	—	23	—	—	—	—
Appendicitis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	122	—
Hernia	1	—	—	—	—	1	—	—	—	—	—	—	—	29	—	—	—
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	1	—	—	—	—	—	1	—	—	—	—	—	—	—	37	—	—
Other dis. of digestive system	7	—	—	—	—	1	2	4	—	—	—	—	—	29	74	488	—
Acute nephritis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	37	—	—
Chronic nephritis	8	—	—	—	—	1	3	2	2	—	—	—	—	29	111	244	292
Diseases of the prostate	8	—	—	—	—	—	2	1	5	—	—	—	—	—	74	122	731
Other genito-urinary diseases	3	—	—	—	—	1	—	1	1	—	—	—	—	29	—	122	146
Old age	19	—	—	—	—	—	—	—	19	—	—	—	—	—	—	—	2778
Suicide	4	—	—	—	1	1	1	—	1	—	—	—	23	29	37	—	146
Accident	15	—	2	—	1	2	4	3	3	—	197	—	23	58	149	366	439
Other causes	6	—	1	1	—	—	2	1	1	—	—	—	—	—	—	—	—
All causes	315	1	5	4	27	43	80	44	111	113	493	180	621	1250	2973	5372	16228
Years of life (Census population × 3)	16,107	885	1,014	2,226	4,347	3,441	2,691	819	684								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	46	140	45	97	108	116	108	119								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,037
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 106

OCCUPATIONAL GROUP 94.—MASONS, STONE CUTTERS AND DRESSERS* (572, 575).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	89	—	—	3	12	13	17	16	28	—	—	22	43	54	83	203	348
Respiratory tuberculosis	364	4	6	18	89	123	90	27	7	99	142	134	318	511	439	342	87
Other tuberculosis	30	1	1	4	4	13	3	3	1	25	24	30	14	54	15	38	12
Syphilis, etc.	32	—	—	—	8	11	7	5	1	—	—	—	29	46	34	63	12
Syphilis	2	—	—	—	—	2	—	—	—	—	—	—	—	8	—	—	—
Tabes dorsalis	9	—	—	—	3	2	3	1	—	—	—	—	11	8	15	13	—
General paralysis of insane	12	—	—	—	3	4	2	2	1	—	—	—	11	17	10	25	12
Aneurysm	9	—	—	—	2	3	2	2	—	—	—	—	7	12	10	25	—
Cancer, all sites	352	—	—	2	17	43	114	67	109	—	—	15	61	179	556	848	1355
Skin	16	—	—	—	—	1	5	2	8	—	—	—	—	4	24	25	99
Lip	5	—	—	—	—	2	—	—	3	—	—	—	—	8	—	—	37
Tongue	18	—	—	—	—	4	5	6	3	—	—	—	—	17	24	76	37
Œsophagus	17	—	—	—	—	4	6	3	4	—	—	—	—	17	29	38	50
Stomach	92	—	—	—	4	14	36	11	27	—	—	—	14	58	176	139	336
Other sites	204	—	—	2	13	18	62	45	64	—	—	15	46	75	302	570	795
Chronic rheumatism, etc., Gout	21	—	—	—	—	1	7	4	9	—	—	—	—	4	34	51	112
Diabetes	17	—	—	—	1	2	7	3	4	—	—	—	4	8	34	38	50
Alcoholism	2	—	—	—	—	—	1	1	—	—	—	—	—	—	5	13	—
Cerebral hæmorrhage, etc.	231	—	—	1	9	10	52	46	113	—	—	7	32	42	254	582	1404
Other dis. of the nervous system	70	1	—	3	6	10	25	10	15	25	—	22	21	42	122	127	186
Valvular disease of heart	203	2	—	3	15	21	51	39	72	49	—	22	54	87	249	494	895
Other heart disease	286	—	1	2	5	20	66	51	141	—	24	15	18	83	322	646	1752
Arterio-sclerosis	171	—	—	—	2	8	19	29	113	—	—	—	7	33	93	367	1404
Other dis. of circulatory system	4	—	—	—	—	—	1	3	—	—	—	—	—	—	5	38	—
Bronchitis	404	—	—	—	7	19	100	76	202	—	—	—	25	79	488	962	2511
Pneumonia	161	—	1	2	17	39	39	17	46	—	24	15	61	162	190	215	572
Chronic interstitial pneumonia	43	—	—	—	2	16	16	6	3	—	—	—	7	66	78	76	37
Other dis. of respiratory system	57	—	—	—	5	11	17	14	10	—	—	—	18	46	83	177	124
Ulcer of stomach	20	—	—	1	2	6	8	3	—	—	—	7	7	25	39	38	—
Ulcer of duodenum	8	—	—	—	3	1	2	—	2	—	—	—	11	4	10	—	25
Appendicitis	9	1	—	—	3	2	1	2	—	25	—	—	11	8	5	25	—
Hernia	12	—	—	—	1	3	3	4	1	—	—	—	4	12	15	51	12
Intestinal obstruction	10	—	—	—	1	2	1	1	5	—	—	—	4	8	5	13	62
Cirrhosis of liver	17	—	—	—	1	5	5	3	3	—	—	—	4	21	24	38	37
Other dis. of digestive system	43	—	—	1	3	9	8	9	13	—	—	7	11	37	39	114	162
Acute nephritis	10	—	—	—	2	1	4	2	1	—	—	—	7	4	20	25	12
Chronic nephritis	86	—	—	1	7	17	21	12	28	—	—	7	25	71	102	152	348
Diseases of the prostate	36	—	—	—	—	1	8	5	22	—	—	—	—	4	39	63	273
Other genito-urinary diseases	28	—	—	—	2	1	5	5	15	—	—	—	7	4	24	63	186
Old age	243	—	—	—	—	—	2	11	230	—	—	—	—	—	10	139	2859
Suicide	41	—	—	2	7	3	16	4	9	—	—	15	25	12	78	51	112
Accident	75	—	2	6	7	12	19	9	20	—	47	45	25	50	93	114	249
Other causes	93	1	3	1	13	24	19	13	19	—	—	—	—	—	—	—	—
All causes	3,268	10	14	50	251	447	754	500	1,242	247	331	371	897	1857	3676	6330	15436
Years of life (Census population × 3)	110,262	4,044	4,233	13,482	27,978	24,069	20,511	7,899	8,046								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	100	94	93	140	161	143	127	114								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,390
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	144

OCCUPATIONAL GROUP 95.—SLATE MASONS AND SLATE WORKERS (576).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	6	—	—	1	—	—	4	—	1	—	—	69	—	—	345	—	546
Respiratory tuberculosis	39	—	1	6	7	9	12	3	1	—	125	413	452	617	1034	1010	546
Other tuberculosis	3	1	—	—	—	2	—	—	—	139	—	—	—	137	—	—	—
Syphilis, etc.	1	—	—	—	—	1	—	—	—	—	—	—	—	69	—	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	1	—	—	—	—	—	—	—	69	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	20	—	—	—	—	3	7	5	5	—	—	—	—	206	603	1684	2732
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	1	—	—	—	—	1	—	—	—	—	—	—	—	69	—	—	—
Stomach	10	—	—	—	—	1	2	3	4	—	—	—	—	69	172	1010	2186
Other sites	9	—	—	—	—	1	5	2	1	—	—	—	—	69	431	673	546
Chronic rheumatism, etc., Gout	2	—	—	—	1	—	1	—	—	—	—	—	65	—	86	—	—
Diabetes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	12	—	—	—	—	—	2	1	9	—	—	—	—	—	172	337	4913
Other dis. of the nervous system	6	—	—	—	1	4	—	1	—	—	—	—	65	274	—	337	—
Valvular disease of heart	13	—	—	2	—	3	3	4	1	—	—	138	—	206	258	1347	546
Other heart disease	22	1	—	1	1	2	8	1	8	139	—	69	65	137	689	337	4372
Arterio-sclerosis	10	—	—	—	—	—	2	2	6	—	—	—	—	—	172	673	3279
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	5	—	—	—	—	—	1	—	4	—	—	—	—	—	86	—	2186
Pneumonia	12	1	—	—	1	—	4	4	2	139	—	—	65	—	345	1347	1093
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	6	—	—	—	—	2	—	1	3	—	—	—	—	137	—	337	1639
Ulcer of stomach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	1	—	—	—	1	—	—	—	—	—	—	—	65	—	—	—	—
Hernia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	546
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	1	—	—	—	—	1	—	—	—	—	—	—	—	69	—	—	—
Other dis. of digestive system	3	—	—	—	—	—	—	2	1	—	—	—	—	—	—	673	546
Acute nephritis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	86	—	—
Chronic nephritis	8	—	—	—	1	—	4	—	3	—	—	—	65	—	345	—	1639
Diseases of the prostate	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	337	1093
Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	5	—	—	—	—	—	—	—	5	—	—	—	—	—	—	—	2732
Suicide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Accident	2	1	—	—	—	—	1	—	—	139	—	—	—	—	86	—	—
Other causes	6	—	1	—	1	2	—	2	—	—	—	—	—	—	—	—	—
All causes	188	4	2	10	14	29	50	27	52	558	250	689	904	1989	4307	9091	28415
Years of life (Census population × 3)	7,617	717	801	1,452	1,548	1,458	1,161	297	183								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	226	71	173	141	172	167	182	209								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,596
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	159

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* For an analysis of the mortality of these workers in different parts of the country, see page 116.

OCCUPATIONAL GROUP 96.—PLATELAYERS (577).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	Numbers of Deaths at Ages—								Mean Annual Death-rate per 100,000.							
		16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	81	—	2	7	7	22	18	11	14	—	19	20	19	70	86	186	257
Respiratory tuberculosis	131	1	10	30	36	30	20	3	1	66	93	87	96	95	96	51	18
Other tuberculosis	18	1	2	4	5	2	2	—	2	66	19	12	13	6	10	—	37
Syphilis, etc.	36	—	—	3	8	13	7	3	2	—	—	9	21	41	34	51	37
Syphilis	7	—	—	2	1	3	1	—	—	—	—	6	3	9	5	—	—
Tabes dorsalis	7	—	—	—	1	—	2	2	2	—	—	—	3	—	10	34	37
General paralysis of insane	11	—	—	1	5	4	1	—	—	—	—	3	13	13	5	—	—
Aneurysm	11	—	—	—	1	6	3	1	—	—	—	—	3	19	14	17	—
Cancer, all sites	333	—	—	4	10	60	108	57	94	—	—	12	27	190	517	964	1728
Skin	9	—	—	—	1	1	1	—	6	—	—	—	3	3	5	—	110
Lip	13	—	—	—	—	—	3	1	9	—	—	—	—	—	14	17	165
Tongue	14	—	—	—	—	2	6	—	6	—	—	—	—	6	29	—	110
Œsophagus	8	—	—	—	—	—	2	1	5	—	—	—	—	—	10	17	92
Stomach	77	—	—	—	2	19	18	25	13	—	—	—	5	60	86	423	239
Other sites	212	—	—	4	7	38	78	30	55	—	—	12	19	120	374	507	1011
Chronic rheumatism, etc., Gout	11	—	—	—	—	—	3	2	6	—	—	—	—	—	14	34	110
Diabetes	21	—	—	3	5	6	2	3	2	—	—	9	13	19	10	51	37
Alcoholism	1	—	—	—	—	1	—	—	—	—	—	—	—	3	—	—	—
Cerebral hæmorrhage, etc.	190	—	—	—	3	9	36	40	102	—	—	—	8	28	172	677	1875
Other dis. of the nervous system	59	—	1	1	6	8	13	11	19	—	9	3	16	25	62	186	349
Valvular disease of heart	178	—	3	3	9	30	48	26	59	—	28	9	24	95	230	440	1085
Other heart disease	206	—	—	4	9	18	43	37	95	—	—	12	24	57	206	626	1747
Arterio-sclerosis	106	—	—	—	—	3	14	16	73	—	—	—	—	9	67	275	1342
Other dis. of circulatory system	12	—	—	—	—	5	3	2	2	—	—	—	—	16	14	34	37
Bronchitis	204	—	—	2	11	13	32	32	114	—	—	6	29	41	153	541	2096
Pneumonia	159	1	3	19	18	27	41	19	31	66	28	55	48	85	196	321	570
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	33	—	—	2	4	5	8	5	9	—	—	6	11	16	38	85	165
Ulcer of stomach	10	—	3	2	—	3	2	—	—	—	28	6	—	9	10	—	—
Ulcer of duodenum	7	—	—	2	—	—	2	1	2	—	—	6	—	—	10	17	37
Appendicitis	13	—	—	4	2	3	1	—	3	—	—	12	5	9	5	—	55
Hernia	12	—	—	—	1	1	2	1	7	—	—	—	3	3	10	17	129
Intestinal obstruction	10	—	—	—	2	3	2	1	2	—	—	—	5	9	10	17	37
Cirrhosis of liver	13	—	—	—	—	4	5	1	3	—	—	—	—	13	24	17	55
Other dis. of digestive system	33	—	—	—	2	6	5	2	18	—	—	—	5	19	24	34	331
Acute nephritis	6	—	—	1	1	2	2	—	—	—	—	3	3	6	10	—	—
Chronic nephritis	57	—	—	—	3	10	12	11	21	—	—	—	8	32	57	186	386
Diseases of the prostate	36	—	—	—	—	1	6	7	22	—	—	—	—	3	29	118	404
Other genito-urinary diseases	21	—	—	—	1	1	6	2	11	—	—	—	3	3	29	34	202
Old age	220	—	—	—	—	—	—	7	213	—	—	—	—	—	—	118	3916
Suicide	31	—	2	2	8	5	10	2	2	—	19	6	21	16	48	34	37
Accident	157	—	9	24	40	27	39	11	7	—	84	70	107	85	187	186	129
Other causes	93	1	—	8	10	18	23	9	24	—	—	—	—	—	—	—	—
All causes	2,498	4	35	125	201	336	515	322	960	265	326	364	536	1062	2467	5446	17650
Years of life (Census population × 3)	147,984	1,512	10,722	34,374	37,518	31,632	20,874	5,913	5,439								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	107	93	91	84	92	96	109	130								

All Causes—ages 20-65 years.	
Comparative Mortality Figure (Standardized Death-rate)	920
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	92

OCCUPATIONAL GROUP 97.—CONTRACTORS' LABOURERS; NAVVIES (581).

CAUSE OF DEATH.	All Ages 16 and upwards.	Numbers of Deaths at Ages—								Mean Annual Death-rate per 100,000.							
		16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	149	—	3	6	11	26	43	20	40	—	16	15	24	50	100	116	253
Respiratory tuberculosis	278	5	17	47	72	69	49	15	4	85	89	115	157	133	113	87	25
Other tuberculosis	26	—	5	3	4	3	7	2	2	—	26	7	9	6	16	12	13
Syphilis, etc.	50	—	—	2	10	10	17	7	4	—	—	5	22	19	39	41	25
Syphilis	3	—	—	—	2	1	—	—	—	—	—	—	4	2	—	—	—
Tabes dorsalis	9	—	—	—	1	2	3	2	1	—	—	—	2	4	7	12	6
General paralysis of insane	14	—	—	1	5	1	5	—	2	—	—	2	11	2	12	—	13
Aneurysm	24	—	—	1	2	6	9	5	1	—	—	2	4	12	21	29	6
Cancer, all sites	618	—	1	3	25	83	195	146	165	—	5	7	55	160	452	849	1044
Skin	32	—	—	—	1	6	7	3	15	—	—	—	2	12	16	17	95
Lip	15	—	—	—	—	1	4	3	7	—	—	—	—	2	9	17	44
Tongue	37	—	—	—	—	5	13	8	11	—	—	—	—	10	30	47	70
Œsophagus	41	—	—	—	1	7	17	7	9	—	—	—	2	13	39	41	57
Stomach	154	—	—	1	9	13	51	40	40	—	—	2	20	25	118	233	253
Other sites	339	—	1	2	14	51	103	85	83	—	5	5	31	98	239	494	525
Chronic rheumatism, etc., Gout	24	—	—	1	—	2	2	4	15	—	—	2	—	2	5	23	95
Diabetes	28	—	—	—	3	9	4	4	8	—	—	—	7	17	9	23	51
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	363	—	—	1	7	20	60	59	216	—	—	2	15	39	139	343	1367
Other dis. of the nervous system	92	3	4	2	7	20	20	13	23	51	21	5	15	39	46	76	146
Valvular disease of heart	351	1	2	6	21	43	75	74	129	17	10	15	46	83	174	430	817
Other heart disease	398	1	2	4	13	28	72	90	188	17	10	10	28	54	167	524	1190
Arterio-sclerosis	215	—	—	—	2	6	26	50	131	—	—	—	4	12	60	291	829
Other dis. of circulatory system	15	—	—	—	1	5	3	2	4	—	—	—	2	10	7	12	25
Bronchitis	490	—	—	1	12	29	83	84	281	—	—	2	26	56	192	489	1779
Pneumonia	307	1	4	25	33	66	66	47	65	17	21	61	72	127	153	274	411
Chronic interstitial pneumonia	5	—	—	1	—	2	1	1	—	—	—	2	—	4	2	6	—
Other dis. of respiratory system	79	—	—	2	3	10	21	16	27	—	—	5	7	19	49	93	171
Ulcer of stomach	16	—	—	1	5	5	3	1	1	—	—	2	11	10	7	6	6
Ulcer of duodenum	13	—	—	—	7	3	1	—	2	—	—	—	15	6	2	—	13
Appendicitis	11	1	—	2	1	3	3	1	—	17	—	5	2	6	7	6	—
Hernia	15	—	—	—	—	1	2	7	5	—	—	—	—	2	5	41	32
Intestinal obstruction	16	—	—	—	1	2	5	—	8	—	—	—	2	4	12	—	51
Cirrhosis of liver	13	1	—	—	1	5	4	—	2	17	—	—	2	10	9	—	13
Other dis. of digestive system	72	—	2	2	4	6	21	9	28	—	10	5	9	12	49	52	177
Acute nephritis	16	—	—	1	4	3	3	2	3	—	—	2	9	6	7	12	19
Chronic nephritis	124	—	1	3	11	13	31	21	44	—	5	7	24	25	72	122	279
Diseases of the prostate	59	—	—	—	—	—	9	9	41	—	—	—	—	—	21	52	260
Other genito-urinary diseases	50	—	—	—	3	3	8	9	27	—	—	—	7	6	19	52	171
Old age	410	—	—	—	—	—	3	16	391	—	—	—	—	—	7	93	2475
Suicide	57	—	1	2	6	13	13	12	10	—	5	5	13	25	30	70	63
Accident	184	7	7	21	33	41	35	17	23	120	36	51	72	79	81	99	146
Other causes	171	1	3	11	16	31	48	23	38	—	—	—	—	—	—	—	—
All causes	4,715	21	52	147	316	560	933	761	1,925	359	271	359	689	1079	2161	4427	12185
Years of life (Census population × 3)	239 ,886	5,853	19,209	40,935	45,843	51,876	43,182	17,190	15,798								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	145	77	90	108	93	84	89	90								

All Causes—ages 20-65 years.	
Comparative Mortality Figure (Standardized Death-rate)	910
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	90

OCCUPATIONAL GROUP 98.—PAINTERS AND DECORATORS (592, 593).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

Cause of Death	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	221	2	1	15	21	51	72	18	41	7	3	14	17	47	102	86	273
Respiratory tuberculosis	763	26	48	118	210	188	140	23	10	89	130	112	171	174	198	109	67
Other tuberculosis	50	4	6	10	11	10	7	2	—	14	16	10	9	9	10	10	—
Syphilis, etc.	155	—	—	11	41	40	44	8	11	—	—	10	33	37	62	38	73
Syphilis	21	—	—	2	5	4	8	—	2	—	—	2	4	4	11	—	13
Tabes dorsalis	20	—	—	—	1	2	12	1	4	—	—	—	1	2	17	5	27
General paralysis of insane	75	—	—	9	28	19	13	4	2	—	—	9	23	18	18	19	13
Aneurysm	39	—	—	—	7	15	11	3	3	—	—	—	6	14	16	14	20
Cancer, all sites	1,040	—	—	12	48	187	390	204	199	—	—	11	39	173	550	971	1327
Skin	20	—	—	1	2	4	6	3	4	—	—	1	2	4	8	14	27
Lip	8	—	—	—	1	1	2	2	2	—	—	—	1	1	3	10	13
Tongue	65	—	—	—	1	10	31	11	12	—	—	—	1	9	44	52	80
Œsophagus	97	—	—	1	4	24	35	18	15	—	—	1	3	22	49	86	100
Stomach	228	—	—	1	14	42	79	43	49	—	—	1	11	39	111	205	327
Other sites	622	—	—	9	26	106	237	127	117	—	—	9	21	98	334	604	780
Chronic rheumatism, etc., Gout	65	—	—	1	5	14	19	17	9	—	—	1	4	13	27	81	60
Diabetes	60	1	5	7	9	11	11	9	7	3	14	7	7	10	16	43	47
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	687	1	3	4	21	99	196	131	232	3	8	4	17	92	277	623	1548
Other dis. of the nervous system	207	1	3	16	34	32	47	41	33	3	8	15	28	30	66	195	220
Valvular disease of heart	537	3	4	32	58	95	132	89	124	10	11	30	47	88	186	423	827
Other heart disease	601	3	6	23	34	67	142	101	225	10	16	22	28	62	200	481	1501
Arterio-sclerosis	380	—	1	—	4	31	79	71	194	—	3	—	3	29	111	338	1294
Other dis. of circulatory system	14	—	—	—	4	3	4	1	2	—	—	—	3	3	6	5	13
Bronchitis	657	1	2	4	26	87	124	106	307	3	5	4	21	81	175	504	2048
Pneumonia	493	5	15	36	69	107	126	62	73	17	41	34	56	99	178	295	487
Chronic interstitial pneumonia	2	—	—	—	1	1	—	—	—	—	—	—	1	1	—	—	—
Other dis. of respiratory system	119	—	—	3	22	22	30	19	23	—	—	3	18	20	42	90	153
Ulcer of stomach	68	—	—	8	18	17	13	6	6	—	—	8	15	16	18	29	40
Ulcer of duodenum	24	1	—	3	6	7	3	4	—	3	—	3	5	6	4	19	—
Appendicitis	33	4	3	5	5	4	9	2	1	14	8	5	4	4	13	10	7
Hernia	35	—	—	1	2	7	4	4	17	—	—	1	2	6	6	19	113
Intestinal obstruction	29	—	1	—	5	6	7	4	6	—	2	—	4	6	10	19	40
Cirrhosis of liver	40	—	—	—	2	13	9	9	7	—	—	—	2	12	13	43	47
Other dis. of digestive system	107	1	4	2	11	17	25	21	26	3	11	2	9	16	35	100	173
Acute nephritis	31	—	—	6	7	9	9	—	—	—	—	6	6	8	13	—	—
Chronic nephritis	431	1	1	13	47	106	135	61	67	3	2	12	38	98	190	290	447
Diseases of the prostate	76	—	—	—	—	1	8	17	50	—	—	—	—	1	11	81	334
Other genito-urinary diseases	90	1	—	3	7	13	23	13	30	3	—	3	6	12	32	62	200
Old age	330	—	—	—	—	—	7	26	297	—	—	—	—	—	10	124	1981
Suicide	117	—	3	7	21	33	34	13	6	—	8	7	17	31	48	62	40
Accident	287	10	14	32	42	60	63	30	36	34	38	30	34	56	89	143	240
Other causes	301	6	7	18	54	67	77	34	38	—	—	—	—	—	—	—	—
All causes	8,050	71	127	390	845	1,405	1,989	1,146	2,077	244	345	371	689	1301	2807	5452	13855
Years of life (Census population × 3)	508,539	29,112	36,819	105,024	122,724	107,988	70,863	21,018	14,991								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	99	98	93	108	113	109	109	102								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,074
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	108

OCCUPATIONAL GROUP 99.—BUILDING TRADE LABOURERS (564, 566, 568, 573, 589, 599).

Cause of Death	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	192	4	10	18	27	34	54	18	27	12	19	18	26	35	100	128	372
Respiratory tuberculosis	729	19	51	90	181	222	126	27	13	58	95	88	172	226	233	192	179
Other tuberculosis	43	4	7	8	2	12	3	2	5	12	13	8	2	12	6	14	69
Syphilis, etc.	110	1	—	4	24	45	27	5	4	3	—	4	23	46	50	35	55
Syphilis	15	1	—	2	1	6	3	1	1	3	—	2	1	6	6	7	14
Tabes dorsalis	18	—	—	—	3	7	5	1	2	—	—	—	3	7	9	7	28
General paralysis of insane	45	—	—	2	17	20	5	1	—	—	—	2	16	20	9	7	—
Aneurysm	32	—	—	—	3	12	14	2	1	—	—	—	3	12	26	14	14
Cancer, all sites	834	1	3	9	45	195	312	138	131	3	6	9	43	199	578	979	1807
Skin	25	—	—	—	1	6	9	3	6	—	—	—	1	6	17	21	83
Lip	17	—	—	—	—	3	8	1	5	—	—	—	—	3	15	7	69
Tongue	61	—	—	—	1	16	23	11	10	—	—	—	1	16	43	78	138
Œsophagus	63	—	—	—	1	13	28	11	10	—	—	—	1	13	52	78	138
Stomach	196	—	—	2	14	47	76	28	29	—	—	2	13	48	141	199	400
Other sites	472	1	3	7	28	110	168	84	71	3	6	7	27	112	311	596	979
Chronic rheumatism, etc., Gout	21	—	—	—	1	1	4	5	10	—	—	—	1	1	7	35	138
Diabetes	25	—	—	3	3	6	8	2	3	—	—	3	3	6	15	14	41
Alcoholism	3	—	—	—	—	1	1	1	—	—	—	—	—	1	2	7	—
Cerebral hæmorrhage, etc.	321	—	—	1	9	36	108	56	111	—	—	1	9	37	200	397	1531
Other dis. of the nervous system	133	3	12	19	17	31	16	14	21	9	22	19	16	32	30	99	290
Valvular disease of heart	369	6	10	27	51	70	98	59	48	18	19	26	49	71	182	419	662
Other heart disease	465	—	5	17	44	74	118	72	135	—	9	17	42	75	219	511	1862
Arterio-sclerosis	265	—	—	—	2	23	48	55	137	—	—	—	2	23	89	390	1889
Other dis. of circulatory system	12	—	—	—	2	1	5	1	3	—	—	—	2	1	9	7	41
Bronchitis	606	1	—	5	34	84	157	95	230	3	—	5	32	86	291	674	3172
Pneumonia	516	7	19	57	104	131	93	55	50	21	36	56	99	133	172	390	690
Chronic interstitial pneumonia	3	—	—	—	—	1	1	1	—	—	—	—	—	1	2	7	—
Other dis. of respiratory system	99	1	3	4	9	22	30	17	13	3	6	4	9	22	56	121	179
Ulcer of stomach	66	—	3	6	14	23	16	2	2	—	6	6	13	23	30	14	28
Ulcer of duodenum	23	—	—	1	10	4	7	1	—	—	—	1	10	4	13	7	—
Appendicitis	31	2	6	7	1	6	5	3	1	6	11	7	1	6	9	21	14
Hernia	30	—	—	1	1	8	7	4	9	—	—	1	1	8	13	28	124
Intestinal obstruction	27	2	1	2	2	5	7	3	5	6	2	2	2	5	13	21	69
Cirrhosis of liver	26	—	1	—	4	10	7	2	2	—	2	—	4	10	13	14	28
Other dis. of digestive system	83	—	4	14	11	19	16	4	15	—	7	14	10	19	30	28	207
Acute nephritis	19	1	—	1	5	8	2	—	2	3	—	1	5	8	4	—	28
Chronic nephritis	165	1	1	5	14	50	39	24	31	3	2	5	13	51	72	170	428
Diseases of the prostate	50	—	—	—	—	2	6	17	25	—	—	—	—	2	11	121	345
Other genito-urinary diseases	51	—	—	1	5	11	14	12	8	—	—	1	5	11	26	85	110
Old age	233	—	—	—	—	1	6	28	198	—	—	—	—	1	11	199	2731
Suicide	83	1	5	8	21	13	26	7	2	3	9	8	20	13	48	50	28
Accident	303	10	19	29	54	76	75	22	18	31	36	28	51	77	139	156	248
Other causes	211	8	7	13	36	53	59	14	21	—	—	—	—	—	—	—	—
All causes	6,147	72	167	350	733	1,278	1,501	766	1,280	221	312	343	698	1302	2781	5434	17653
Years of life (Census population × 3)	466,644	32,583	53,505	102,111	104,958	98,157	53,982	14,097	7,251								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	89	89	86	109	113	108	109	130								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,060
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	106

OCCUPATIONAL GROUP 100.—RUBBER WORKERS (601-609).

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	
12	2	—	1	4	3	2	—	—	36	—	7	38	42	53	—	—	Influenza .. ..
70	4	14	20	15	13	4	—	—	73	194	150	143	180	107	—	—	Respiratory tuberculosis ..
10	1	4	4	—	1	—	—	—	18	55	30	—	14	—	—	—	Other tuberculosis .. ..
8	—	—	—	3	2	2	—	1	—	—	—	29	28	53	—	208	Syphilis, etc. .. .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Syphilis .. .. ..
2	—	—	—	—	1	—	—	1	—	—	—	—	14	—	—	208	Tabes dorsalis .. .. ..
2	—	—	—	2	—	—	—	—	—	—	—	19	—	—	—	—	General paralysis of insane ..
4	—	—	—	1	1	2	—	—	—	—	—	10	14	53	—	—	Aneurysm .. .. ..
56	—	—	3	5	10	24	6	8	—	—	22	48	139	641	576	1667	Cancer, all sites .. .. ..
2	—	—	—	—	—	1	1	—	—	—	—	—	—	27	96	—	Skin .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip .. ..
7	—	—	—	1	2	4	—	—	—	—	—	10	28	107	—	—	Tongue .. ..
7	—	—	—	—	4	3	—	—	—	—	—	—	55	80	—	—	Œsophagus .. .. ..
13	—	—	—	1	3	6	3	—	—	—	—	10	42	160	288	—	Stomach .. .. ..
27	—	—	3	3	1	10	2	8	—	—	22	29	14	267	192	1667	Other sites .. .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic rheumatism, etc., Gout
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Diabetes .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism .. .. ..
22	1	—	—	—	5	8	4	4	18	—	—	—	69	214	384	833	Cerebral hæmorrhage, etc.
8	2	—	2	—	2	1	—	1	36	—	15	—	28	27	—	208	Other dis. of the nervous system
22	—	—	7	3	4	3	4	1	—	—	52	29	55	80	384	208	Valvular disease of heart ..
21	—	—	2	1	5	10	1	2	—	—	15	10	69	267	96	417	Other heart disease .. ..
8	—	—	—	—	1	3	1	3	—	—	—	—	14	80	96	625	Arterio-sclerosis .. .. ..
1	—	—	—	1	—	—	—	—	—	—	—	10	—	—	—	—	Other dis. of circulatory system
23	—	—	1	—	5	4	4	9	—	—	7	—	69	107	384	1875	Bronchitis.. .. .. ..
37	—	2	5	10	9	7	2	2	—	28	37	96	125	187	192	417	Pneumonia .. .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia
4	—	—	1	—	—	2	1	—	—	—	7	—	—	53	96	—	Other dis. of respiratory system
1	—	—	—	1	—	—	—	—	—	—	—	10	—	—	—	—	Ulcer of stomach .. ..
2	—	—	—	1	—	1	—	—	—	—	—	10	—	27	—	—	Ulcer of duodenum .. ..
1	1	—	—	—	—	—	—	—	18	—	—	—	—	—	—	—	Appendicitis .. .. ..
2	—	—	—	—	—	2	—	—	—	—	—	—	—	53	—	—	Hernia .. ..
1	—	—	—	—	—	1	—	—	—	—	—	—	—	27	—	—	Intestinal obstruction ..
6	—	—	—	—	2	4	—	—	—	—	—	—	28	107	—	—	Cirrhosis of liver .. ..
4	—	—	—	2	1	1	—	—	—	—	—	19	14	27	—	—	Other dis. of digestive system ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Acute nephritis .. ..
13	—	—	1	—	5	4	2	1	—	—	7	—	69	107	192	208	Chronic nephritis.. .. ..
6	—	—	—	—	1	—	2	3	—	—	—	—	14	—	192	625	Diseases of the prostate ..
1	—	—	—	—	—	1	—	—	—	—	—	—	—	27	—	—	Other genito-urinary diseases ..
8	—	—	—	—	—	—	—	8	—	—	—	—	—	—	—	1667	Old age .. ..
4	—	1	—	2	—	—	1	—	—	14	—	19	—	—	96	—	Suicide .. ..
10	1	1	3	—	3	1	—	1	18	14	22	—	42	27	—	208	Accident .. ..
17	2	3	1	3	3	3	—	2	—	—	—	—	—	—	—	—	Other causes .. .. ..
378	14	25	51	51	75	88	28	46	254	346	381	487	1040	2350	2690	9583	All causes .. .. ..
49,050	5,517	7,218	13,374	10,464	7,212	3,744	1,041	480									Years of life (Census population × 3) .. ..
—	103	98	95	76	90	91	54	71									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 892

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 90

OCCUPATIONAL GROUP 101.—DRAFTERS AND BRUSH MAKERS (633).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	7	—	—	1	—	1	1	2	2	—	—	41	—	43	52	298	242
Respiratory tuberculosis ..	43	3	10	5	5	12	3	3	2	180	819	205	225	519	155	446	242
Other tuberculosis	2	—	—	1	—	1	—	—	—	—	—	41	—	43	—	—	—
Syphilis, etc.	4	—	—	—	1	2	—	—	1	—	—	—	45	86	—	—	121
Syphilis	1	—	—	—	1	—	—	—	—	—	—	—	45	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	121
General paralysis of insane ..	1	—	—	—	—	1	—	—	—	—	—	—	—	43	—	—	—
Aneurysm	1	—	—	—	—	1	—	—	—	—	—	—	—	43	—	—	—
Cancer, all sites	38	—	—	—	1	4	9	10	14	—	—	—	45	173	464	1488	1691
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	1	—	—	—	—	—	1	—	—	—	—	—	—	—	52	—	—
Tongue	2	—	—	—	—	1	—	—	1	—	—	—	—	43	—	—	121
Œsophagus	2	—	—	—	—	—	2	—	—	—	—	—	—	—	103	—	—
Stomach	6	—	—	—	—	2	2	—	2	—	—	—	—	86	103	—	242
Other sites	27	—	—	—	1	1	4	10	11	—	—	—	45	43	206	1488	1329
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	2	—	—	—	—	1	—	—	1	—	—	—	—	43	—	—	121
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	18	—	—	—	—	1	2	2	13	—	—	—	—	43	103	298	1570
Other dis. of the nervous system	9	—	—	2	1	1	1	4	—	—	—	82	45	43	52	595	—
Valvular disease of heart ..	13	1	—	—	1	2	4	2	3	60	—	—	45	86	206	298	362
Other heart disease	16	—	—	—	1	3	4	1	7	—	—	—	45	130	206	149	845
Arterio-sclerosis	16	—	—	—	—	2	1	1	12	—	—	—	—	86	52	149	1449
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis..	32	—	—	1	2	5	5	3	16	—	—	41	90	216	258	446	1932
Pneumonia	22	1	—	2	2	2	6	3	6	60	—	82	90	86	309	446	725
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	3	—	—	—	—	1	1	—	1	—	—	—	—	43	52	—	121
Ulcer of stomach	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	149	—
Ulcer of duodenum	2	—	—	—	1	—	1	—	—	—	—	—	45	—	52	—	—
Appendicitis	1	—	—	1	—	—	—	—	—	—	—	41	—	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	1	—	—	—	—	1	—	—	—	—	—	—	—	43	—	—	—
Other dis. of digestive system ..	3	—	—	—	—	—	2	—	1	—	—	—	—	—	103	—	121
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis..	9	—	1	—	1	3	—	2	2	—	82	—	45	130	—	298	242
Diseases of the prostate ..	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	149	—
Other genito-urinary diseases ..	3	—	—	—	—	1	—	2	—	—	—	—	—	43	—	298	—
Old age	22	—	—	—	—	—	—	—	22	—	—	—	—	—	—	—	2657
Suicide	4	—	—	—	1	1	—	—	2	—	—	—	45	43	—	—	242
Accident	4	1	—	—	—	—	1	—	2	60	—	—	—	—	52	—	242
Other causes	12	—	—	—	2	1	3	3	3	—	—	—	—	—	—	—	—
All causes	288	6	11	13	19	45	44	40	110	360	901	534	855	1946	2267	5952	13285
Years of life (Census population × 3)	13,302	1,668	1,221	2,436	2,223	2,313	1,941	672	828								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	146	256	134	134	168	88	119	98								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,320

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 126

OCCUPATIONAL GROUP 102.—SHIPWRIGHTS (662).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 103.—SHIPYARD LABOURERS, ETC. (669).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
16	—	—	2	1	2	—	1	10	—	—	18	11	28	—	52	257	Influenza	31	—	—	7	5	8	5	3	3	—	—	65	48	85	94	176	278
78	10	17	17	17	8	7	1	1	91	176	151	186	114	133	52	26	Respiratory tuberculosis ..	114	12	13	22	30	24	11	1	1	272	227	203	290	255	206	59	93
9	2	—	2	2	2	—	—	1	18	—	18	22	28	—	—	26	Other tuberculosis	9	2	1	—	1	3	2	—	—	45	17	—	10	32	37	—	—
19	—	—	3	2	6	5	1	2	—	—	27	22	85	95	52	51	Syphilis, etc.	23	—	—	—	5	10	6	1	1	—	—	—	48	106	112	59	93
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Syphilis	2	—	—	—	—	1	—	—	1	—	—	—	—	11	—	—	93
3	—	—	—	—	2	1	—	—	—	—	—	—	28	19	—	—	Tabes dorsalis	5	—	—	—	2	1	2	—	—	—	—	—	19	11	37	—	—
11	—	—	3	2	4	1	1	—	—	—	27	22	57	19	52	—	General paralysis of insane	14	—	—	—	3	8	2	1	—	—	—	—	29	85	37	59	—
5	—	—	—	—	—	3	—	2	—	—	—	—	—	57	—	51	Aneurysm	2	—	—	—	—	—	2	—	—	—	—	—	—	—	37	—	—
111	1	3	2	3	14	25	14	49	9	31	18	33	199	476	724	1260	Cancer, all sites	86	1	—	2	6	20	32	11	14	23	—	18	58	212	599	646	1296
4	—	—	—	—	—	2	—	2	—	—	—	—	—	38	—	51	Skin	4	—	—	—	—	1	2	—	1	—	—	—	—	11	37	—	93
2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	52	26	Lip	2	—	—	—	—	—	1	—	1	—	—	—	—	—	19	—	93
6	—	—	—	—	1	1	2	2	—	—	—	—	14	19	103	51	Tongue	8	—	—	—	—	2	3	3	—	—	—	—	—	21	56	176	—
8	—	—	—	—	—	2	—	6	—	—	—	—	—	38	—	154	Œsophagus	5	—	—	—	—	—	3	—	2	—	—	—	—	—	56	—	185
27	—	1	1	1	6	4	2	12	—	10	9	11	85	76	103	309	Stomach	28	—	—	1	3	7	9	3	5	—	—	9	29	74	169	176	463
64	1	2	1	2	7	16	9	26	9	21	9	22	100	305	465	669	Other sites	39	1	—	1	3	10	14	5	5	23	—	9	29	106	262	293	463
8	—	—	1	—	1	1	—	5	—	—	9	—	14	19	—	129	Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	—	1	—	—	—	2	2	3	—	10	—	—	—	38	103	77	Diabetes	2	—	1	—	—	—	1	—	—	—	17	—	—	—	19	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
93	—	—	—	1	1	14	9	68	—	—	—	11	14	267	465	1749	Cerebral hæmorrhage, etc. ..	44	—	—	1	3	5	9	9	17	—	—	9	29	53	169	528	1574
12	—	2	1	—	2	3	—	4	—	21	9	—	28	57	—	103	Other dis. of the nervous system	11	—	1	1	2	1	3	2	1	—	17	9	19	11	56	117	93
54	—	—	3	3	6	15	7	20	—	—	27	33	85	286	362	514	Valvular disease of heart ..	56	—	2	4	4	16	9	10	11	—	35	37	39	170	169	587	1019
85	1	—	2	1	1	15	12	53	9	—	18	11	14	286	618	1363	Other heart disease	43	1	—	4	5	6	6	11	10	23	—	37	48	64	112	646	926
56	—	—	—	—	1	4	3	48	—	—	—	—	14	76	155	1235	Arterio-sclerosis	34	—	—	—	—	5	6	13	10	—	—	—	—	53	112	763	926
3	—	—	—	—	1	1	—	1	—	—	—	—	14	19	—	26	Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
97	—	—	—	1	4	10	9	73	—	—	—	11	57	190	465	1878	Bronchitis..	74	—	—	1	5	12	27	10	19	—	—	9	48	127	506	587	1759
48	1	4	5	3	8	7	—	20	9	41	44	33	114	133	—	514	Pneumonia	79	4	5	10	23	14	11	8	4	91	87	92	223	149	206	469	370
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	26	Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	2	—	3	3	—	9	—	—	18	—	43	57	—	231	Other dis. of respiratory system	10	—	—	—	2	2	2	1	3	—	—	—	19	21	37	59	278
3	—	—	—	2	—	—	—	1	—	—	—	22	—	—	—	26	Ulcer of stomach	8	—	—	3	—	3	—	1	1	—	—	28	—	32	—	59	93
1	—	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—	Ulcer of duodenum	1	—	—	—	1	—	—	—	—	—	—	—	10	—	—	—	—
8	1	1	1	2	—	—	1	2	9	10	9	22	—	—	52	51	Appendicitis	3	—	—	2	—	1	—	—	—	—	—	18	—	11	—	—	—
4	—	—	—	—	—	—	1	3	—	—	—	—	—	—	52	77	Hernia	3	—	—	—	—	—	1	2	—	—	—	—	—	—	19	117	—
2	—	—	—	1	—	—	—	1	—	—	—	11	—	—	—	26	Intestinal obstruction ..	3	—	1	—	2	—	—	—	—	—	17	—	19	—	—	—	—
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	26	Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	—	1	—	—	2	2	1	6	—	10	—	—	28	38	52	154	Other dis. of digestive system ..	11	—	—	1	1	2	4	2	1	—	—	9	10	21	75	117	93
2	1	—	—	1	—	—	—	—	9	—	—	11	—	—	—	—	Acute nephritis	2	—	1	1	—	—	—	—	—	—	17	9	—	—	—	—	—
21	—	—	1	1	2	4	3	10	—	—	9	11	28	76	155	257	Chronic nephritis..	24	—	—	1	1	8	4	3	7	—	—	9	10	85	75	176	648
20	—	—	—	—	—	1	2	17	—	—	—	—	—	19	103	437	Diseases of the prostate ..	5	—	—	—	—	—	1	1	3	—	—	—	—	—	19	59	278
7	—	—	—	—	—	—	1	6	—	—	—	—	—	—	52	154	Other genito-urinary diseases ..	5	—	—	—	—	1	1	2	1	—	—	—	—	11	19	117	93
114	—	—	—	—	—	—	—	114	—	—	—	—	—	—	—	2932	Old age	22	—	—	—	—	—	—	1	21	—	—	—	—	—	—	59	1944
15	2	1	2	—	—	2	2	6	18	10	18	—	—	38	103	154	Suicide	12	—	—	2	3	2	3	2	—	—	—	18	29	21	56	117	—
43	10	3	5	4	6	3	2	10	91	31	44	44	85	57	103	257	Accident	33	—	2	4	7	10	5	5	—	—	35	37	68	106	94	293	—
23	—	2	1	3	1	5	2	9	—	—	—	—	—	—	—	—	Other causes	15	1	—	3	—	2	4	2	3	—	—	—	—	—	—	—	—
991	29	35	50	48	71	130	74	554	265	363	443	525	1011	2476	3824	14249	All causes	763	21	27	69	106	155	153	101	131	476	472	637	1026	1646	2865	5927	12130
59,082	10,932	9,639	11,277	9,138	7,023	5,250	1,935	3,888	Years of life (Census population × 3)									48,819	4,410	5,715	10,824	10,332	9,414	5,340	1,704	1,080								
—	107	103	111	82	87	96	77	105	Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.									—	193	134	160	161	142	111	119	89								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	934
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	95

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,351
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	136

OCCUPATIONAL GROUP 104.—GAS STOKERS (693).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

Cause of Death	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	29	—	—	—	5	12	7	3	2	—	—	—	46	116	158	376	351
Respiratory tuberculosis	62	—	1	10	15	16	16	2	2	—	57	141	139	155	360	251	351
Other tuberculosis	6	—	—	1	2	—	2	—	1	—	—	14	19	—	45	—	175
Syphilis, etc.	9	—	—	1	3	3	2	—	—	—	—	14	28	29	45	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	1	—	—	—	—	—	—	—	10	—	—	—
General paralysis of insane	3	—	—	—	2	1	—	—	—	—	—	—	19	10	—	—	—
Aneurysm	5	—	—	1	1	1	2	—	—	—	—	14	9	10	45	—	—
Cancer, all sites	108	—	—	—	5	25	40	18	20	—	—	—	46	242	901	2256	3509
Skin	12	—	—	—	2	1	4	2	3	—	—	—	19	10	90	251	526
Lip	3	—	—	—	—	—	2	1	—	—	—	—	—	—	45	125	—
Tongue		—	—	—	—	—	2	1	1	—	—	—	—	—	45	125	175
Œsophagus	2	—	—	—	—	2	—	—	—	—	—	—	—	19	—	—	—
Stomach	23	—	—	—	1	3	6	7	6	—	—	—	9	29	135	877	1053
Other sites	64	—	—	—	2	19	26	7	10	—	—	—	19	184	586	877	1754
Chronic rheumatism, etc., Gout	5	—	—	—	—	—	3	1	1	—	—	—	—	—	68	125	175
Diabetes	4	—	—	—	—	—	3	1	—	—	—	—	—	—	68	125	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	36	—	—	—	1	4	8	6	17	—	—	—	9	39	180	752	2982
Other dis. of the nervous system	18	—	—	—	4	6	7	—	1	—	—	—	37	58	158	—	175
Valvular disease of heart	43	—	1	—	6	9	10	8	9	—	57	—	56	87	225	1003	1579
Other heart disease	57	—	—	2	2	12	8	10	23	—	—	28	19	116	180	1253	4035
Arterio-sclerosis	41	—	—	—	1	2	8	8	22	—	—	—	9	19	180	1003	3860
Other dis. of circulatory system	3	—	—	—	—	1	—	1	1	—	—	—	—	10	—	125	175
Bronchitis	99	—	—	—	3	7	24	17	48	—	—	—	28	68	541	2130	8421
Pneumonia	53	—	2	1	6	12	21	4	7	—	114	14	56	116	473	501	1228
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	9	—	—	—	1	—	2	3	3	—	—	—	9	—	45	376	526
Ulcer of stomach	2	—	—	—	1	1	—	—	—	—	—	—	9	10	—	—	—
Ulcer of duodenum	4	—	—	—	2	2	—	—	—	—	—	—	19	19	—	—	—
Appendicitis	4	—	—	1	2	—	1	—	—	—	—	14	19	—	23	—	—
Hernia	1	—	—	—	1	—	—	—	—	—	—	—	9	—	—	—	—
Intestinal obstruction	5	—	—	1	1	—	2	—	1	—	—	14	9	—	45	—	175
Cirrhosis of liver	5	—	—	—	1	3	—	—	1	—	—	—	9	29	—	—	175
Other dis. of digestive system	9	—	—	—	2	4	1	1	1	—	—	—	19	39	23	125	175
Acute nephritis	1	—	—	—	—	1	—	—	—	—	—	—	—	10	—	—	—
Chronic nephritis	18	—	—	1	1	3	9	1	3	—	—	14	9	29	203	125	526
Diseases of the prostate	5	—	—	—	—	—	1	1	3	—	—	—	—	—	23	125	526
Other genito-urinary diseases	4	—	—	1	—	—	2	1	—	—	—	14	—	—	45	125	—
Old age	30	—	—	—	—	—	—	4	26	—	—	—	—	—	—	501	4561
Suicide	6	—	—	—	—	2	2	—	2	—	—	—	—	19	45	—	351
Accident	22	—	1	2	5	3	8	2	1	—	57	28	46	29	180	251	175
Other causes	28	—	1	1	2	8	7	2	7	—	—	—	—	—	—	—	—
All causes	726	—	6	22	72	136	194	94	202	--	342	310	668	1314	4369	11779	35439
Years of life (Census population × 3)	36,159	366	1,752	7,107	10,776	10,350	4,440	798	570								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	97	78	105	114	170	236	261								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,289
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	128

OCCUPATIONAL GROUP 105.—RAILWAY OFFICIALS, STATION MASTERS, ETC. (700).

Cause of Death	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	46	—	—	1	4	10	13	5	13	—	—	19	28	48	80	105	244
Respiratory tuberculosis	45	—	—	6	12	12	10	2	3	—	—	114	85	58	61	42	56
Other tuberculosis	3	—	—	—	1	2	—	—	—	—	—	—	7	10	—	—	—
Syphilis, etc.	11	—	—	—	1	1	3	6	—	—	—	—	7	5	18	126	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	5	—	—	—	—	—	2	3	—	—	—	—	—	—	12	63	—
General paralysis of insane	3	—	—	—	1	1	—	1	—	—	—	—	7	5	—	21	—
Aneurysm	3	—	—	—	—	—	1	2	—	—	—	—	—	—	6	42	—
Cancer, all sites	211	—	—	—	6	30	63	34	78	—	—	—	42	144	385	715	1465
Skin	3	—	—	—	—	—	1	1	1	—	—	—	—	—	6	21	19
Lip	3	—	—	—	—	1	1	—	1	—	—	—	—	5	6	—	19
Tongue	9	—	—	—	1	2	3	2	1	—	—	—	7	10	18	42	19
Œsophagus	9	—	—	—	—	3	3	1	2	—	—	—	—	14	18	21	38
Stomach	44	—	—	—	1	5	11	8	19	—	—	—	7	24	67	168	357
Other sites	143	—	—	—	4	19	44	22	54	—	—	—	28	91	269	462	1014
Chronic rheumatism, etc., Gout	6	—	—	—	—	1	1	—	4	—	—	—	—	5	6	—	75
Diabetes	28	—	—	—	—	4	12	8	4	—	—	—	—	19	73	168	75
Alcoholism	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	19
Cerebral hæmorrhage, etc.	155	—	—	—	—	6	35	31	83	—	—	—	—	29	214	652	1559
Other dis. of the nervous system	35	—	—	—	1	2	4	6	22	—	—	—	7	10	24	126	413
Valvular disease of heart	89	—	—	—	5	11	27	13	33	—	—	—	35	53	165	273	620
Other heart disease	138	—	—	1	—	10	32	25	70	—	—	19	—	48	196	525	1315
Arterio-sclerosis	84	—	—	—	—	7	17	19	41	—	—	—	—	34	104	399	770
Other dis. of circulatory system	8	—	—	—	—	2	2	2	2	—	—	—	—	10	12	42	38
Bronchitis	100	—	—	1	—	3	12	16	68	—	—	19	—	14	73	336	1277
Pneumonia	56	1	—	1	6	9	19	8	12	278	—	19	42	43	116	168	225
Chronic interstitial pneumonia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	6	—	—
Other dis. of respiratory system	11	—	—	—	1	1	2	2	5	—	—	—	7	5	12	42	94
Ulcer of stomach	6	—	—	—	1	1	2	—	2	—	—	—	7	5	12	—	38
Ulcer of duodenum	3	—	—	—	1	1	—	1	—	—	—	—	7	5	—	21	—
Appendicitis	8	—	—	1	—	3	4	—	—	—	—	19	—	14	24	—	—
Hernia	7	—	—	—	—	1	1	—	5	—	—	—	—	5	6	—	94
Intestinal obstruction	7	—	—	—	1	—	2	2	2	—	—	—	7	—	12	42	38
Cirrhosis of liver	8	—	—	—	—	1	3	4	—	—	—	—	—	5	18	84	—
Other dis. of digestive system	29	—	—	1	1	6	10	1	10	—	—	19	7	29	61	21	188
Acute nephritis	6	—	—	—	2	1	1	—	2	—	—	—	14	5	6	—	38
Chronic nephritis	52	—	—	—	—	8	16	14	14	--	—	—	—	38	98	294	263
Diseases of the prostate	32	—	—	—	—	1	3	8	20	—	—	—	—	5	18	168	376
Other genito-urinary diseases	27	—	—	—	2	1	4	4	16	—	—	—	14	5	24	84	300
Old age	111	—	—	—	—	—	2	4	105	—	—	—	—	—	12	84	1972
Suicide	12	—	—	1	—	3	5	1	2	—	—	19	—	14	31	21	38
Accident	27	—	—	—	4	8	9	1	5	—	—	—	28	38	55	21	94
Other causes	73	—	—	1	6	18	24	13	11	—	—	—	—	—	—	—	—
All causes	1,436	1	—	14	55	164	339	230	633	278	—	266	389	786	2074	4834	11887
Years of life (Census population × 3)	68,079	360	1,038	5,259	14,130	20,865	16,344	4,758	5,325								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	113	—	67	61	68	81	97	87								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	679
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	74

OCCUPATIONAL GROUP 106.—LOCOMOTIVE ENGINE DRIVERS, FIREMEN, CLEANERS (INCLUDING MOTOR MEN) (701).

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	
90	4	8	13	11	18	12	8	16	9	12	20	21	43	51	114	273	Influenza
272	27	68	72	42	40	17	5	1	58	101	111	79	95	72	71	17	Respiratory tuberculosis
24	4	13	3	1	2	—	1	—	9	19	5	2	5	—	14	—	Other tuberculosis
44	—	1	2	9	16	13	3	—	—	1	4	17	38	55	43	—	Syphilis, etc
5	—	1	1	—	1	2	—	—	—	1	2	—	2	8	—	—	Syphilis
7	—	—	—	—	3	4	—	—	—	—	—	—	7	17	—	—	Tabes dorsalis
23	—	—	1	9	8	3	2	—	—	—	2	17	19	13	28	—	General paralysis of insane
9	—	—	—	—	4	4	1	—	—	—	—	—	10	17	14	—	Aneurysm
329	1	6	12	16	61	106	49	78	2	9	18	30	145	446	698	1329	Cancer, all sites
12	—	—	1	—	2	1	1	7	—	—	2	—	5	4	14	119	Skin
1	—	—	—	—	1	—	—	—	—	—	—	—	2	—	—	—	Lip
17	—	—	—	1	2	9	4	1	—	—	—	2	5	38	57	17	Tongue
17	—	—	—	1	3	6	4	3	—	—	—	2	7	25	57	51	Œsophagus
69	—	—	3	2	17	20	12	15	—	—	5	4	40	84	171	256	Stomach
213	1	6	8	12	36	70	28	52	2	9	12	23	86	295	399	886	Other sites
11	—	—	—	—	2	1	2	6	—	—	—	—	5	4	28	102	Chronic rheumatism, etc., Gout
50	2	2	5	6	1	16	15	3	4	3	8	11	2	67	214	51	Diabetes
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism
229	—	3	1	4	20	47	41	113	—	4	2	8	48	198	584	1926	Cerebral hæmorrhage, etc.
84	3	6	4	11	16	20	10	14	6	9	6	21	38	84	142	239	Other dis. of the nervous system
174	3	2	6	15	23	44	29	52	6	3	9	28	55	185	413	886	Valvular disease of heart
198	3	6	4	8	15	47	30	85	6	9	6	15	36	198	427	1449	Other heart disease
103	—	—	—	2	6	16	23	56	—	—	—	4	14	67	328	954	Arterio-sclerosis
10	—	—	1	—	4	1	3	1	—	—	2	—	10	4	43	17	Other dis. of circulatory system
182	—	—	2	8	10	27	27	108	—	—	3	15	24	114	385	1840	Bronchitis
178	6	18	26	39	20	29	14	26	13	27	40	73	48	122	199	443	Pneumonia
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia
26	—	1	3	3	4	5	4	6	—	1	5	6	10	21	57	102	Other dis. of respiratory system
24	1	1	7	4	6	4	1	—	2	1	11	8	14	17	14	—	Ulcer of stomach
10	—	1	1	5	1	2	—	—	—	1	2	9	2	8	—	—	Ulcer of duodenum
25	6	3	3	7	5	—	1	—	13	4	5	13	12	—	14	—	Appendicitis
19	—	1	—	2	2	9	2	3	—	1	—	4	5	38	28	51	Hernia
10	—	1	1	—	2	1	2	3	—	1	2	—	5	4	28	51	Intestinal obstruction
11	—	—	—	—	1	4	3	3	—	—	—	—	2	17	43	51	Cirrhosis of liver
44	1	3	1	3	7	9	6	14	2	4	2	6	17	38	85	239	Other dis. of digestive system
8	1	1	1	—	1	1	2	1	2	1	2	—	2	4	28	17	Acute nephritis
82	—	5	2	2	16	19	22	16	—	7	3	4	38	80	313	273	Chronic nephritis
37	—	—	—	—	2	8	6	21	—	—	—	—	5	34	85	358	Diseases of the prostate
27	—	1	—	—	9	9	2	6	—	1	—	—	21	38	28	102	Other genito-urinary diseases
125	—	—	—	—	—	1	6	118	—	—	—	—	—	4	85	2011	Old age
30	1	3	1	6	5	8	3	3	2	4	2	11	12	34	43	51	Suicide
153	15	30	26	23	22	17	10	10	32	45	40	43	52	72	142	170	Accident
128	8	8	6	18	29	27	14	18	—	—	—	—	—	—	—	—	Other causes
2,737	86	192	203	245	366	520	344	781	184	287	312	459	872	2190	4900	13309	All causes
310,659	46,632	67,008	65,088	53,325	41,979	23,739	7,020	5,868									Years of life (Census population × 3)
—	74	82	78	72	75	85	98	98									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years

Comparative Mortality Figure (Standardized Death-rate) 792

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 79

OCCUPATIONAL GROUP 107.—RAILWAY GUARDS (702).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	43	—	—	3	6	8	13	7	6	—	—	16	30	43	116	226	198
Respiratory tuberculosis	51	3	8	12	12	5	10	1	—	649	148	65	59	27	89	32	—
Other tuberculosis	6	1	1	3	—	1	—	—	—	216	19	16	—	5	—	—	—
Syphilis, etc	14	—	—	1	3	4	6	—	—	—	—	5	15	22	53	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	6	—	—	—	1	1	4	—	—	—	—	—	5	5	36	—	—
General paralysis of insane	6	—	—	1	2	3	—	—	—	—	—	5	10	16	—	—	—
Aneurysm	2	—	—	—	—	—	2	—	—	—	—	—	—	—	18	—	—
Cancer, all sites	146	—	2	2	4	23	49	22	44	—	37	11	20	124	436	711	1449
Skin	5	—	—	—	—	—	1	1	3	—	—	—	—	—	9	32	99
Lip	2	—	—	—	—	1	—	—	1	—	—	—	—	5	—	—	33
Tongue	6	—	—	—	—	1	3	1	1	—	—	—	—	5	27	32	33
Œsophagus	8	—	—	—	—	1	4	2	1	—	—	—	—	5	36	65	33
Stomach	26	—	—	—	1	4	10	1	10	—	—	—	5	22	89	32	329
Other sites	99	—	2	2	3	16	31	17	28	—	37	11	15	86	276	549	922
Chronic rheumatism, etc., Gout	3	—	—	—	—	—	1	1	1	—	—	—	—	—	9	32	33
Diabetes	17	—	—	2	1	2	3	3	6	—	—	11	5	11	27	97	198
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	89	—	—	—	1	8	21	20	39	—	—	—	5	43	187	646	1285
Other dis. of the nervous system	23	—	1	1	2	6	4	4	5	—	19	5	10	32	36	129	165
Valvular disease of heart	65	—	1	2	—	10	16	14	22	—	19	11	—	54	142	452	725
Other heart disease	94	—	—	2	4	13	23	20	32	—	—	11	20	70	205	646	1054
Arterio-sclerosis	44	—	—	—	1	1	6	11	25	—	—	—	5	5	53	355	823
Other dis. of circulatory system	5	—	—	—	1	2	—	—	2	—	—	—	5	11	—	—	66
Bronchitis	84	—	—	—	3	7	8	12	54	—	—	—	15	38	71	388	1779
Pneumonia	72	1	3	7	11	11	17	11	11	216	56	38	54	59	151	355	362
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	12	—	1	2	2	1	3	—	3	—	19	11	10	5	27	—	99
Ulcer of stomach	6	—	—	1	1	1	2	1	—	—	—	5	5	5	18	32	—
Ulcer of duodenum	7	—	—	1	2	—	2	2	—	—	—	5	10	—	18	65	—
Appendicitis	8	—	1	1	2	3	—	—	1	—	19	5	10	16	—	—	33
Hernia	6	—	—	—	—	—	2	1	3	—	—	—	—	—	18	32	99
Intestinal obstruction	5	—	—	1	—	—	1	1	2	—	—	5	—	—	9	32	66
Cirrhosis of liver	4	—	—	—	—	2	1	—	1	—	—	—	—	11	9	—	33
Other dis. of digestive system	22	—	—	—	3	3	9	2	5	—	—	—	15	16	80	65	165
Acute nephritis	3	—	—	1	—	2	—	—	—	—	—	5	—	11	—	—	—
Chronic nephritis	38	—	—	3	2	6	10	9	8	—	—	16	10	32	89	291	263
Diseases of the prostate	15	—	—	—	—	—	5	6	4	—	—	—	—	—	45	194	132
Other genito-urinary diseases	8	—	—	—	—	1	4	1	2	—	—	—	—	5	36	32	66
Old age	74	—	—	—	—	—	—	1	73	—	—	—	—	—	—	32	2404
Suicide	17	—	—	—	2	4	6	2	3	—	—	—	10	22	53	65	99
Accident	65	2	1	7	16	18	11	5	5	433	19	38	79	97	98	161	165
Other causes	52	1	—	3	7	12	16	7	6	—	—	—	—	—	—	—	—
All causes	1,098	8	19	55	86	154	249	164	363	1732	352	297	423	831	2216	5297	11957
Years of life (Census population × 3)	80,601	462	5,403	18,501	20,325	18,543	11,235	3,096	3,036								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	701	100	74	66	72	86	106	88								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 782

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 78

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

OCCUPATIONAL GROUP 108.—RAILWAY SIGNALMEN (703).

Cause of Death	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	51	1	1	3	8	10	8	5	15	47	14	13	37	51	61	122	405
Respiratory tuberculosis	63	5	8	18	11	10	9	—	2	233	111	79	52	51	69	—	54
Other tuberculosis	5	—	—	3	1	—	1	—	—	—	—	13	5	—	8	—	—
Syphilis, etc.	17	—	—	—	3	5	6	—	3	—	—	—	14	25	46	—	81
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	5	—	—	—	—	1	4	—	—	—	—	—	—	5	30	—	—
General paralysis of insane	7	—	—	—	3	3	—	—	1	—	—	—	14	15	—	—	27
Aneurysm	5	—	—	—	—	1	2	—	2	—	—	—	—	5	15	—	54
Cancer, all sites	156	—	—	1	6	17	48	23	61	—	—	4	28	87	366	562	1646
Skin	4	—	—	—	1	1	—	1	1	—	—	—	5	5	—	24	27
Lip	4	—	—	—	—	—	—	—	4	—	—	—	—	—	—	—	108
Tongue	6	—	—	—	—	1	2	2	1	—	—	—	—	5	15	49	27
Œsophagus	5	—	—	—	—	—	3	1	1	—	—	—	—	—	23	24	27
Stomach	47	—	—	—	2	3	15	8	19	—	—	—	9	15	114	195	513
Other sites	90	—	—	1	3	12	28	11	35	—	—	4	14	61	213	269	945
Chronic rheumatism, etc., Gout	4	—	—	—	—	—	—	—	4	—	—	—	—	—	—	—	108
Diabetes	28	—	—	—	—	5	10	5	8	—	—	—	—	25	76	122	216
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	132	—	—	—	2	10	29	24	67	—	—	—	9	51	221	586	1808
Other dis. of the nervous system	29	—	—	2	3	2	9	6	7	—	—	9	14	10	69	147	189
Valvular disease of heart	65	—	—	2	4	7	12	16	24	—	—	9	19	36	91	391	648
Other heart disease	131	—	—	1	3	11	32	27	57	—	—	4	14	56	244	659	1538
Arterio-sclerosis	72	—	—	—	—	2	9	17	44	—	—	—	—	10	69	415	1188
Other dis. of circulatory system	2	—	—	—	—	—	1	—	1	—	—	—	—	—	8	—	27
Bronchitis	76	—	—	—	2	2	9	16	47	—	—	—	9	10	69	391	1269
Pneumonia	48	1	—	4	6	6	9	10	12	47	—	18	28	31	69	244	324
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	21	—	—	2	2	2	3	2	10	—	—	9	9	10	23	49	270
Ulcer of stomach	9	—	—	—	—	2	4	1	2	—	—	—	—	10	30	24	54
Ulcer of duodenum	4	—	—	—	1	—	2	—	1	—	—	—	5	—	15	—	27
Appendicitis	6	2	—	—	—	1	—	—	3	93	—	—	—	5	—	—	81
Hernia	12	—	—	—	—	3	4	1	4	—	—	—	—	15	30	24	108
Intestinal obstruction	4	—	—	—	1	1	1	—	1	—	—	—	5	5	8	—	27
Cirrhosis of liver	7	—	—	—	—	—	4	2	1	—	—	—	—	—	30	49	27
Other dis. of digestive system	21	1	—	1	3	2	3	5	6	47	—	4	14	10	23	122	162
Acute nephritis	6	—	—	—	—	2	4	—	—	—	—	—	—	10	30	—	—
Chronic nephritis	31	—	—	2	3	4	12	4	6	—	—	9	14	20	91	98	162
Diseases of the prostate	22	—	—	—	—	—	4	5	13	—	—	—	—	—	30	122	351
Other genito-urinary diseases	13	—	—	1	2	—	1	—	9	—	—	4	9	—	8	—	243
Old age	78	—	—	—	—	—	2	3	73	—	—	—	—	—	15	73	1970
Suicide	13	—	—	1	1	2	4	3	2	—	—	4	5	10	30	73	54
Accident	26	—	—	4	3	7	5	1	6	—	—	18	14	36	38	24	162
Other causes	62	3	1	1	8	13	16	12	8	—	—	—	—	—	—	—	—
All causes	1,214	13	10	46	73	126	261	188	497	605	139	203	342	642	1989	4591	13414
Years of life (Census population × 3)	93,942	2,148	7,206	22,713	21,342	19,614	13,119	4,095	3,705								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	245	39	51	54	·56	77	92	99								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	622
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	63

OCCUPATIONAL GROUP 109.—SHUNTERS, POINTSMEN, AND LEVEL CROSSING MEN (704).

Cause of Death	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	16	—	1	1	4	4	3	1	2	—	8	3	21	41	69	67	190
Respiratory tuberculosis	72	2	10	19	28	11	2	—	—	81	80	66	150	112	46	—	—
Other tuberculosis	3	—	—	2	1	—	—	—	—	—	—	7	5	—	—	—	—
Syphilis, etc.	16	—	—	1	5	5	3	2	—	—	—	3	27	51	69	133	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	3	—	—	—	—	—	1	2	—	—	—	—	—	—	23	133	—
General paralysis of insane	9	—	—	1	5	3	—	—	—	—	—	3	27	31	—	—	—
Aneurysm	4	—	—	—	—	2	2	—	—	—	—	—	—	20	46	—	—
Cancer, all sites	82	—	—	2	9	16	17	13	25	—	—	7	48	163	388	867	2381
Skin	5	—	—	—	1	—	1	1	2	—	—	—	5	—	23	67	190
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	4	—	—	—	—	3	—	—	1	—	—	—	—	31	—	—	95
Œsophagus	5	—	—	—	2	2	—	1	—	—	—	—	11	20	—	67	—
Stomach	20	—	—	—	—	4	7	2	7	—	—	—	—	41	160	133	667
Other sites	48	—	—	2	6	7	9	9	15	—	—	7	32	71	206	600	1429
Chronic rheumatism, etc., Gout	3	—	—	—	—	1	—	—	2	—	—	—	—	10	—	—	190
Diabetes	7	—	—	2	1	2	1	1	—	—	—	7	5	20	23	67	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	42	—	—	2	—	7	9	6	18	—	—	7	—	71	206	400	1714
Other dis. of the nervous system	18	—	3	1	1	3	5	2	3	—	24	3	5	31	114	133	286
Valvular disease of heart	31	—	1	1	5	4	6	5	9	—	8	3	27	41	137	333	857
Other heart disease	55	—	1	8	7	8	8	7	16	—	8	28	38	81	183	467	1524
Arterio-sclerosis	15	—	—	—	1	1	3	—	10	—	—	—	5	10	69	—	952
Other dis. of circulatory system	1	—	—	1	—	—	—	—	—	—	—	3	—	—	—	—	—
Bronchitis	45	—	—	1	3	4	11	3	23	—	—	3	16	41	251	200	2190
Pneumonia	45	—	3	13	11	6	6	3	3	—	24	45	59	61	137	200	286
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	5	—	1	1	—	1	1	—	1	—	8	3	—	10	23	—	95
Ulcer of stomach	8	—	—	1	4	1	1	1	—	—	—	3	21	10	23	67	—
Ulcer of duodenum	4	—	—	2	—	—	2	—	—	—	—	7	—	—	46	—	—
Appendicitis	4	1	—	1	1	—	—	1	—	40	—	3	5	—	—	67	—
Hernia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	23	—	—
Intestinal obstruction	3	—	1	—	1	—	—	—	1	—	8	—	5	—	—	—	95
Cirrhosis of liver	1	—	—	—	—	—	1	—	—	—	—	—	—	—	23	—	—
Other dis. of digestive system	5	—	—	1	1	—	2	—	1	—	—	3	5	—	46	—	95
Acute nephritis	2	—	—	1	1	—	—	—	—	—	—	3	5	—	—	—	—
Chronic nephritis	18	—	—	3	5	1	4	4	1	—	—	10	27	10	91	267	95
Diseases of the prostate	3	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	286
Other genito-urinary diseases	4	—	—	—	1	—	1	—	2	—	—	—	5	—	23	—	190
Old age	23	—	—	—	—	—	—	—	23	—	—	—	—	—	—	—	2190
Suicide	7	—	2	—	2	2	—	1	—	—	16	—	11	20	—	67	—
Accident	101	3	15	26	18	22	12	3	2	121	121	90	97	224	274	200	190
Other causes	27	—	5	3	8	1	5	1	4	—	—	—	—	—	—	—	—
All causes	667	6	43	93	118	100	104	54	149	242	346	323	633	1019	2376	3600	14190
Years of life (Census population × 3)	79,074	2,481	12,441	28,776	18,633	9,816	4,377	1,500	1,050								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	98	98	81	99	88	92	72	104								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	914
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	91

OCCUPATIONAL GROUP 110.—RAILWAY PORTERS AND LAMPMEN (706).

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up
Influenza	98	2	11	10	13	24	17	6	15	6	25	14	28	71	91	123	436
Respiratory tuberculosis	382	21	66	96	94	64	35	5	1	65	148	137	199	189	188	103	29
Other tuberculosis	24	4	8	5	2	4	1	—	—	12	18	7	4	12	5	—	—
Syphilis, etc.	55	—	1	4	15	23	9	1	2	—	2	6	32	68	48	21	58
Syphilis	4	—	—	2	—	2	—	—	—	—	—	3	—	6	—	—	—
Tabes dorsalis	12	—	—	—	2	6	4	—	—	—	—	—	4	18	22	—	—
General paralysis of insane	27	—	1	2	13	10	1	—	—	—	2	3	28	29	5	—	—
Aneurysm	12	—	—	—	—	5	4	1	2	—	—	—	—	15	22	21	58
Cancer, all sites	288	1	3	11	17	74	89	47	46	3	7	16	36	218	479	966	1338
Skin	10	—	—	—	—	1	4	2	3	—	—	—	—	3	22	41	87
Lip	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	58
Tongue	16	—	—	—	2	8	4	2	—	—	—	—	4	24	22	41	—
Œsophagus	22	—	—	—	—	9	9	3	1	—	—	—	—	27	48	62	29
Stomach	73	—	—	5	5	27	17	9	10	—	—	7	11	80	91	185	291
Other sites	165	1	3	6	10	29	55	31	30	3	7	9	21	85	296	637	873
Chronic rheumatism, etc., Gout	12	—	—	—	—	—	4	3	5	—	—	—	—	—	22	62	145
Diabetes	27	1	3	2	4	6	8	1	2	3	7	3	8	18	43	21	58
Alcoholism	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	29
Cerebral hæmorrhage, etc.	139	—	—	1	4	12	43	30	49	—	—	1	8	35	231	617	1425
Other dis. of the nervous system	75	3	3	6	17	15	16	9	6	9	7	9	36	44	86	185	175
Valvular disease of heart	134	—	3	15	16	16	31	17	36	—	7	21	34	47	167	350	1047
Other heart disease	178	2	6	12	13	27	33	32	53	6	13	17	28	80	178	658	1542
Arterio-sclerosis	70	—	—	1	—	3	14	9	43	—	—	1	—	9	75	185	1251
Other dis. of circulatory system	6	—	—	2	1	2	1	—	—	—	—	3	2	6	5	—	—
Bronchitis	203	—	1	10	10	24	49	27	82	—	2	14	21	71	264	555	2385
Pneumonia	161	6	6	24	37	27	25	15	21	18	13	34	78	80	134	308	611
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	45	—	3	6	3	6	12	4	11	—	7	9	6	18	65	82	320
Ulcer of stomach	36	—	3	9	9	11	2	2	—	—	7	13	19	32	11	41	—
Ulcer of duodenum	11	—	—	2	3	1	2	1	2	—	—	3	6	3	11	21	58
Appendicitis	12	2	—	3	2	2	3	—	—	6	—	4	4	6	16	—	—
Hernia	7	—	1	—	2	—	1	2	1	—	2	—	4	—	5	41	29
Intestinal obstruction	5	—	—	—	—	2	2	—	1	—	—	—	—	6	11	—	29
Cirrhosis of liver	9	—	—	1	2	—	4	1	1	—	—	1	4	—	22	21	29
Other dis. of digestive system	30	—	1	2	1	3	10	4	9	—	2	3	2	9	54	82	262
Acute nephritis	5	—	2	1	—	1	1	—	—	—	4	1	—	3	5	—	—
Chronic nephritis	78	1	1	5	8	22	18	11	12	3	2	7	17	65	97	226	349
Diseases of the prostate	22	—	—	—	—	2	2	6	12	—	—	—	—	6	11	123	349
Other genito-urinary diseases	22	2	1	1	2	8	4	1	3	6	2	1	4	24	22	21	87
Old age	103	—	—	—	—	—	4	5	94	—	—	—	—	—	22	103	2734
Suicide	33	1	3	4	10	3	5	5	2	3	7	6	21	9	27	103	58
Accident	123	12	16	21	18	23	15	6	12	37	36	30	38	68	81	123	349
Other causes	98	5	9	22	17	16	14	5	10	—	—	—	—	—	—	—	—
All causes	2,492	63	151	276	320	421	474	255	532	194	338	393	678	1240	2550	5244	15474
Years of life (Census population × 3)	255,399	32,445	44,688	70,191	47,232	33,951	18,591	4,863	3,438								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	79	96	98	106	107	99	105	114								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,023
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	102

OCCUPATIONAL GROUP 111.—LIVERY STABLE AND MOTOR GARAGE PROPRIETORS AND MANAGERS; HAULAGE CONTRACTORS (711–713).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	43	—	—	3	7	7	10	5	11	—	—	11	23	28	63	105	228
Respiratory tuberculosis	105	1	6	22	34	24	12	4	2	35	77	81	111	95	76	84	41
Other tuberculosis	5	—	—	2	1	1	—	—	1	—	—	7	3	4	—	—	21
Syphilis, etc.	25	—	1	3	3	6	7	1	4	—	13	11	10	24	44	21	83
Syphilis	2	—	—	—	1	1	—	—	—	—	—	—	3	4	—	—	—
Tabes dorsalis	9	—	—	—	—	2	3	—	4	—	—	—	—	8	19	—	83
General paralysis of insane	5	—	—	3	1	1	—	—	—	—	—	11	3	4	—	—	—
Aneurysm	9	—	1	—	1	2	4	1	—	—	13	—	3	8	25	21	—
Cancer, all sites	207	—	—	2	9	29	66	42	59	—	—	7	29	114	418	881	1222
Skin	5	—	—	—	—	1	—	2	2	—	—	—	—	4	—	42	41
Lip	6	—	—	—	—	—	1	—	5	—	—	—	—	—	6	—	104
Tongue	5	—	—	—	—	1	3	1	—	—	—	—	—	4	19	21	—
Œsophagus	13	—	—	—	—	3	6	2	2	—	—	—	—	12	38	42	41
Stomach	42	—	—	—	4	4	9	12	13	—	—	—	13	16	57	252	269
Other sites	136	—	—	2	5	20	47	25	37	—	—	7	16	79	297	524	767
Chronic rheumatism, etc., Gout	12	—	—	—	—	3	3	1	5	—	—	—	—	12	19	21	104
Diabetes	21	—	—	1	—	5	3	3	9	—	—	4	—	20	19	63	186
Alcoholism	1	—	—	—	—	1	—	—	—	—	—	—	—	4	—	—	—
Cerebral hæmorrhage, etc.	110	—	—	1	2	6	22	13	66	—	—	4	7	24	139	273	1367
Other dis. of the nervous system	36	—	3	2	2	8	5	4	12	—	38	7	7	32	32	84	249
Valvular disease of heart	100	—	2	2	11	13	20	13	39	—	26	7	36	51	127	273	808
Other heart disease	162	—	1	1	8	13	41	29	69	—	13	4	26	51	259	608	1429
Arterio-sclerosis	83	—	—	—	1	7	15	9	51	—	—	—	3	28	95	189	1057
Other dis. of circulatory system	3	—	—	—	—	—	2	—	1	—	—	—	—	—	13	—	21
Bronchitis	153	—	1	1	7	11	27	13	93	—	13	4	23	43	171	273	1927
Pneumonia	95	—	1	13	18	17	13	11	22	—	13	48	59	67	82	231	456
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	26	—	—	2	5	3	4	2	10	—	—	7	16	12	25	42	207
Ulcer of stomach	12	—	—	2	3	2	3	1	1	—	—	7	10	8	19	21	21
Ulcer of duodenum	8	—	—	1	1	2	4	—	—	—	—	4	3	8	25	—	—
Appendicitis	15	—	2	1	2	4	4	1	1	—	26	4	7	16	25	21	21
Hernia	7	—	—	—	1	—	1	1	4	—	—	—	3	—	6	21	83
Intestinal obstruction	8	—	—	2	1	2	1	—	2	—	—	7	3	8	6	—	41
Cirrhosis of liver	19	—	—	—	3	3	8	3	2	—	—	—	10	12	51	63	41
Other dis. of digestive system	26	—	—	3	4	2	4	2	11	—	—	11	13	8	25	42	228
Acute nephritis	4	—	1	—	1	1	—	—	1	—	13	—	3	4	—	—	21
Chronic nephritis	67	—	—	2	1	8	20	11	25	—	—	7	3	32	127	231	518
Diseases of the prostate	29	—	—	—	—	—	5	4	20	—	—	—	—	—	32	84	414
Other genito-urinary diseases	17	—	—	—	—	2	4	5	6	—	—	—	—	8	25	105	124
Old age	108	—	—	—	—	—	—	3	105	—	—	—	—	—	—	63	2175
Suicide	40	—	2	2	5	15	11	1	4	—	26	7	16	59	70	21	83
Accident	67	2	5	7	14	18	6	2	13	70	64	26	46	71	38	42	269
Other causes	49	—	—	6	12	5	12	3	11	—	—	—	—	—	—	—	—
All causes	1,663	3	25	81	156	218	333	187	660	105	321	297	509	860	2107	3920	13673
Years of life (Census population × 3)	119,388	2,862	7,797	27,303	30,678	25,344	15,807	4,770	4,827								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	43	91	74	80	74	82	79	101								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	791
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	79

OCCUPATIONAL GROUP 112.—DRIVERS OF HORSE-DRAWN VEHICLES (718, 719).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	312	5	7	19	44	73	74	37	53	9	10	17	34	62	107	189	297
Respiratory tuberculosis	1,071	35	117	160	290	274	155	24	16	60	173	140	224	233	223	123	90
Other tuberculosis	99	13	14	16	16	18	13	3	6	22	21	14	12	15	19	15	34
Syphilis, etc.	220	—	1	14	56	78	51	13	7	—	1	12	43	66	73	66	39
Syphilis	34	—	1	3	11	7	10	2	—	—	1	3	9	6	14	10	—
Tabes dorsalis	48	—	—	1	8	12	16	6	5	—	—	1	6	10	23	31	28
General paralysis of insane	90	—	—	8	32	39	11	—	—	—	—	7	25	33	16	—	—
Aneurysm	48	—	—	2	5	20	14	5	2	—	—	2	4	17	20	26	11
Cancer, all sites	1,426	3	6	17	74	299	474	219	334	5	9	15	57	255	682	1119	1871
Skin	44	—	1	—	—	7	10	5	21	—	1	—	—	6	14	26	118
Lip	21	—	—	1	—	3	5	2	10	—	—	1	—	3	7	10	56
Tongue	99	—	—	1	—	30	43	8	17	—	—	1	—	26	62	41	95
Œsophagus	127	—	—	—	1	30	61	15	20	—	—	—	1	26	88	77	112
Stomach	306	—	—	2	21	82	95	43	63	—	—	2	16	70	137	220	353
Other sites	829	3	5	13	52	147	260	146	203	5	7	11	40	125	374	746	1137
Chronic rheumatism, etc., Gout	64	—	—	—	—	8	16	10	30	—	—	—	—	7	23	51	168
Diabetes	75	1	3	10	11	15	17	6	12	2	4	9	9	13	24	31	67
Alcoholism	1	—	—	—	—	1	—	—	—	—	—	—	—	1	—	—	—
Cerebral hæmorrhage, etc.	755	1	2	3	22	71	180	123	353	2	3	3	17	60	259	628	1977
Other dis. of the nervous system	264	8	7	22	40	53	58	29	47	14	10	19	31	45	83	148	263
Valvular disease of heart	672	6	26	44	74	109	146	89	178	10	38	39	57	93	210	455	997
Other heart disease	908	4	16	29	60	107	194	145	353	7	24	25	46	91	279	741	1977
Arterio-sclerosis	473	—	—	1	4	25	93	90	260	—	—	1	3	21	134	460	1456
Other dis. of circulatory system	25	—	2	1	4	3	5	3	7	—	3	1	3	3	7	15	39
Bronchitis	1,320	—	5	19	54	147	252	192	651	—	7	17	42	125	363	981	3646
Pneumonia	857	15	25	81	157	203	168	91	117	26	37	71	121	173	242	465	655
Chronic interstitial pneumonia	7	—	—	—	—	4	1	1	1	—	—	—	—	3	1	5	6
Other dis. of respiratory system	176	1	3	14	18	31	49	24	36	2	4	12	14	26	71	123	202
Ulcer of stomach	97	1	2	10	27	26	16	2	13	2	3	9	21	22	23	10	73
Ulcer of duodenum	35	—	—	4	10	9	9	—	3	—	—	4	8	8	13	—	17
Appendicitis	44	5	8	6	7	7	8	—	3	9	12	5	5	6	12	—	17
Hernia	62	—	1	—	5	7	17	7	25	—	1	—	4	6	24	36	140
Intestinal obstruction	54	4	3	4	5	7	9	4	18	7	4	4	4	6	13	20	101
Cirrhosis of liver	63	1	—	2	7	23	20	4	6	2	—	2	5	20	29	20	34
Other dis. of digestive system	154	5	7	9	10	28	29	17	49	9	10	8	8	24	42	87	274
Acute nephritis	27	—	3	3	7	7	3	2	2	—	4	3	5	6	4	10	11
Chronic nephritis	325	2	6	24	31	63	86	41	72	3	9	21	24	54	124	209	403
Diseases of the prostate	111	—	—	1	1	3	15	21	70	—	—	1	1	3	22	107	392
Other genito-urinary diseases	113	—	2	5	8	20	17	16	45	—	3	4	6	17	24	82	252
Old age	569	—	—	—	—	1	10	38	520	—	—	—	—	1	14	194	2912
Suicide	140	—	5	8	21	33	40	14	19	—	7	7	16	28	58	72	106
Accident	463	23	19	33	65	93	127	47	56	39	28	29	50	79	183	240	314
Other causes	401	13	16	38	52	71	87	51	73	—	—	—	—	—	—	—	—
All causes	11,383	146	306	597	1,180	1,917	2,439	1,363	3,435	249	452	524	912	1633	3511	6964	19237
Years of life (Census population × 3)	593,919	58,656	67,638	113,991	129,357	117,381	69,468	19,572	17,856								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	101	128	131	143	141	137	140	142								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,378
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 138

OCCUPATIONAL GROUP 113.—DRIVERS OF MOTOR VEHICLES AND STEAM WAGONS (720, 721).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	96	1	9	24	30	22	7	2	1	3	11	14	24	40	44	87	103
Respiratory tuberculosis	542	20	90	182	176	51	21	1	1	61	113	107	143	92	133	43	103
Other tuberculosis	58	6	17	22	8	4	1	—	—	18	21	13	6	7	6	—	—
Syphilis, etc.	77	—	1	7	26	28	13	—	2	—	1	4	21	51	83	—	206
Syphilis	8	—	1	2	—	3	2	—	—	—	1	1	—	5	13	—	—
Tabes dorsalis	6	—	—	1	—	2	3	—	—	—	—	1	—	4	19	—	—
General paralysis of insane	49	—	—	3	24	17	4	—	1	—	—	2	19	31	25	—	103
Aneurysm	14	—	—	1	2	6	4	—	1	—	—	1	2	11	25	—	103
Cancer, all sites	282	1	5	19	60	84	79	21	13	3	6	11	49	152	501	910	1337
Skin	7	—	—	2	—	1	2	1	1	—	—	1	—	2	13	43	103
Lip	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	87	—
Tongue	9	—	—	—	1	2	6	—	—	—	—	—	1	4	38	—	—
Œsophagus	20	—	—	—	3	4	11	1	1	—	—	—	2	7	70	43	103
Stomach	58	—	—	4	17	17	17	1	2	—	—	2	14	31	108	43	206
Other sites	186	1	5	13	39	60	43	16	9	3	6	8	32	109	273	694	926
Chronic rheumatism, etc., Gout	6	—	—	—	1	—	3	—	2	—	—	—	1	—	19	—	206
Diabetes	34	2	3	6	11	4	5	2	1	6	4	4	9	7	32	87	103
Alcoholism	1	—	—	—	—	1	—	—	—	—	—	—	—	2	—	—	—
Cerebral hæmorrhage, etc.	84	—	3	9	9	19	16	9	19	—	4	5	7	34	102	390	1955
Other dis. of the nervous system	79	5	7	22	19	16	8	1	1	15	9	13	15	29	51	43	103
Valvular disease of heart	176	4	9	38	36	41	29	9	10	12	11	22	29	74	184	390	1029
Other heart disease	185	4	11	34	36	31	32	15	22	12	14	20	29	56	203	650	2263
Arterio-sclerosis	41	—	—	1	1	10	10	7	12	—	—	1	1	18	63	303	1235
Other dis. of circulatory system	8	—	2	1	2	2	—	—	1	—	3	1	2	4	—	—	103
Bronchitis	112	—	3	9	13	21	29	9	28	—	4	5	11	38	184	390	2881
Pneumonia	255	11	18	61	83	43	22	10	7	33	23	36	67	78	140	433	720
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	45	1	4	8	7	10	11	3	1	3	5	5	6	18	70	130	103
Ulcer of stomach	31	—	3	6	8	9	4	—	1	—	4	4	6	16	25	—	103
Ulcer of duodenum	12	—	1	3	4	4	—	—	—	—	1	2	3	7	—	—	—
Appendicitis	35	3	12	7	4	6	2	1	—	9	15	4	3	11	13	43	—
Hernia	11	—	—	3	—	1	4	2	1	—	—	2	—	2	25	87	103
Intestinal obstruction	17	2	1	3	4	3	2	—	2	6	1	2	3	5	13	—	206
Cirrhosis of liver	11	—	—	1	—	7	3	—	—	—	—	1	—	13	19	—	—
Other dis. of digestive system	44	2	3	7	11	8	11	2	—	6	4	4	9	14	70	87	—
Acute nephritis	19	1	7	5	2	2	2	—	—	3	9	3	2	4	13	—	—
Chronic nephritis	62	—	3	12	10	15	13	3	6	—	4	7	8	27	83	130	617
Diseases of the prostate	15	—	—	1	—	—	6	3	5	—	—	1	—	—	38	130	514
Other genito-urinary diseases	29	—	3	4	5	9	4	3	1	—	4	2	4	16	25	130	103
Old age	25	—	—	—	—	—	—	2	23	—	—	—	—	—	—	87	2366
Suicide	69	1	6	16	21	15	9	—	1	3	8	9	17	27	57	—	103
Accident	180	15	33	59	35	21	10	4	3	46	42	35	28	38	63	173	309
Other causes	129	5	16	36	39	20	8	1	4	—	—	—	—	—	—	—	—
All causes	2,770	84	270	606	661	507	364	110	168	255	340	355	536	918	2310	4768	17284
Years of life (Census population × 3)	480,393	32,883	79,299	170,634	123,306	55,236	15,756	2,307	972								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	103	97	89	84	79	90	96	127								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 862
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 86

OCCUPATIONAL GROUP 114.—TRAM DRIVERS (722).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	31	—	—	4	10	13	2	—	2	—	—	21	46	112	68	—	1170
Respiratory tuberculosis ..	87	1	7	35	30	11	2	—	1	529	240	180	137	95	68	—	585
Other tuberculosis	9	—	3	2	4	—	—	—	—	—	103	10	18	—	—	—	—
Syphilis, etc.	18	—	—	1	4	10	3	—	—	—	—	5	18	86	101	—	—
Syphilis	4	—	—	1	1	2	—	—	—	—	—	5	5	17	—	—	—
Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	34	—	—
General paralysis of insane	7	—	—	—	3	3	1	—	—	—	—	—	14	26	34	—	—
Aneurysm	6	—	—	—	—	5	1	—	—	—	—	—	—	43	34	—	—
Cancer, all sites	44	—	1	2	7	15	13	3	3	—	34	10	32	130	439	980	1754
Skin	2	—	—	—	2	—	—	—	—	—	—	—	9	—	—	—	—
Lip	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	327	—
Tongue	2	—	—	—	—	—	1	—	1	—	—	—	—	—	34	—	585
Œsophagus	1	—	—	—	—	—	1	—	—	—	—	—	—	—	34	—	—
Stomach	7	—	—	2	—	4	1	—	—	—	—	10	—	35	34	—	—
Other sites	31	—	1	—		11	10	2	2	—	34	—	23	95	338	654	1170
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	7	—	—	1	1	3	1	—	1	—	—	5	5	26	34	—	585
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	13	—	—	2	2	1	1	2	5	—	—	10	9	9	34	654	2924
Other dis. of the nervous system	16	—	1	4	4	5	—	1	1	—	34	21	18	43	—	327	585
Valvular disease of heart ..	31	—	—	7	11	5	3	—	5	—	—	36	50	43	101	—	2924
Other heart disease	28	—	—	3	5	6	9	1	4	—	—	15	23	52	304	327	2339
Arterio-sclerosis	10	—	—	—	—	1	5	2	2	—	—	—	—	9	169	654	1170
Other dis. of circulatory system	3	—	—	—	1	1	1	—	—	—	—	—	5	9	34	—	—
Bronchitis	25	—	—	—	4	7	6	—	8	—	—	—	18	60	203	—	4678
Pneumonia	34	—	—	6	9	13	4	1	1	—	—	31	41	112	135	327	585
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	8	—	—	—	4	3	1	—	—	—	—	—	18	26	34	—	—
Ulcer of stomach	4	—	—	—	2	1	1	—	—	—	—	—	9	9	34	—	—
Ulcer of duodenum	2	—	—	—	2	—	—	—	—	—	—	—	9	—	—	—	—
Appendicitis	2	—	—	1	—	1	—	—	—	—	—	5	—	9	—	—	—
Hernia	1	—	—	—	—	1	—	—	—	—	—	—	—	9	—	—	—
Intestinal obstruction ..	1	—	—	—	1	—	—	—	—	—	—	—	5	—	—	—	—
Cirrhosis of liver	1	—	—	—	—	—	1	—	—	—	—	—	—	—	34	—	—
Other dis. of digestive system ..	3	—	—	1	—	1	1	—	—	—	—	5	—	9	34	—	—
Acute nephritis	1	—	—	—	—	1	—	—	—	—	—	—	—	9	—	—	—
Chronic nephritis..	9	—	—	1	1	3	3	1	—	—	—	5	5	26	101	327	—
Diseases of the prostate ..	2	—	—	—	—	—	1	—	1	—	—	—	—	—	34	—	585
Other genito-urinary diseases ..	4	—	—	—	1	1	1	—	1	—	—	—	5	9	34	—	585
Old age	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Suicide	6	—	—	2	3	1	—	—	—	—	—	10	14	9	—	—	—
Accident	9	—	—	2	3	3	—	—	1	—	—	10	14	26	—	—	585
Other causes	20	—	3	1	7	3	4	1	1	—	—	—	—	—	—	—	—
All causes	429	1	15	75	116	110	63	12	37	529	513	386	528	950	2130	3922	21637
Years of life (Census population × 3)	59,514	189	2,922	19,419	21,972	11,577	2,958	306	171								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	214	146	97	83	82	83	79	159								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 875

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 87

OCCUPATIONAL GROUP 115.—OMNIBUS AND TRAM CONDUCTORS (724).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	17	—	1	7	5	4	—	—	—	—	6	20	31	63	—	—	—
Respiratory tuberculosis ..	145	5	21	61	31	23	3	1	—	115	122	177	191	360	177	585	—
Other tuberculosis	4	3	—	—	1	—	—	—	—	69	—	—	6	—	—	—	—
Syphilis, etc.	5	—	1	1	3	—	—	—	—	—	6	3	18	—	—	—	—
Syphilis	1	—	1	—	—	—	—	—	—	—	6	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	1	—	—	—	—	—	—	—	6	—	—	—	—
General paralysis of insane	3	—	—	1	2	—	—	—	—	—	—	3	12	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	38	—	—	4	7	13	12	2	—	—	—	12	43	204	708	1170	—
Skin	1	—	—	—	1	—	—	—	—	—	—	—	6	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	4	—	—	—	1	—	3	—	—	—	—	—	6	—	177	—	—
Œsophagus	2	—	—	—	—	2	—	—	—	—	—	—	—	31	—	—	—
Stomach	8	—	—	1	2	3	2	—	—	—	—	3	12	47	118	—	—
Other sites	23	—	—	3	3	8	7	2	—	—	—	9	18	125	413	1170	—
Chronic rheumatism, etc., Gout	2	—	—	—	—	1	—	—	1	—	—	—	—	16	—	—	1667
Diabetes	6	1	—	—	3	—	1	1	—	23	—	—	18	—	59	585	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	9	—	—	1	2	4	—	2	—	—	—	3	12	63	—	1170	—
Other dis. of the nervous system	15	1	1	6	3	3	1	—	—	23	6	17	18	47	59	—	—
Valvular disease of heart ..	18	—	—	8	4	3	3	—	—	—	—	23	25	47	177	—	—
Other heart disease	32	—	4	10	8	2	3	1	4	—	23	29	49	31	177	585	6667
Arterio-sclerosis	6	—	—	—	1	2	2	—	1	—	—	—	6	31	118	—	1667
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	20	1	1	2	6	3	4	1	2	23	6	6	37	47	236	585	3333
Pneumonia	37	1	3	9	12	6	4	1	1	23	17	26	74	94	236	585	1667
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	12	—	2	4	4	2	—	—	—	—	12	12	25	31	—	—	—
Ulcer of stomach	4	—	—	—	3	1	—	—	—	—	—	—	18	16	—	—	—
Ulcer of duodenum	4	—	2	—	1	1	—	—	—	—	12	—	6	16	—	—	—
Appendicitis	8	1	2	2	—	2	1	—	—	23	12	6	—	31	59	—	—
Hernia	2	—	—	—	—	1	1	—	—	—	—	—	—	16	59	—	—
Intestinal obstruction ..	5	—	1	1	1	1	1	—	—	—	6	3	6	16	59	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system ..	3	—	—	1	1	1	—	—	—	—	—	3	6	16	—	—	—
Acute nephritis	3	1	—	—	1	1	—	—	—	23	—	—	6	16	—	—	—
Chronic nephritis..	15	1	1	4	2	3	3	—	1	23	6	12	12	47	177	—	1667
Diseases of the prostate ..	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	1667
Other genito-urinary diseases ..	1	—	—	1	—	—	—	—	—	—	—	3	—	—	—	—	—
Old age	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	1667
Suicide	10	—	1	2	3	4	—	—	—	—	6	6	18	63	—	—	—
Accident	12	1	3	5	—	2	—	—	1	23	17	14	—	31	—	—	1667
Other causes	18	2	2	10	1	3	—	—	—	—	—	—	—	—	—	—	—
All causes	453	18	46	139	103	86	39	9	13	414	266	403	634	1346	2301	5263	21667
Years of life (Census population × 3)	80,712	4,344	17,283	34,524	16,248	6,387	1,695	171	60								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	168	76	101	99	116	89	105	159								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 990

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 98

OCCUPATIONAL GROUP 116.—GROOMS AND HORSE KEEPERS (725).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	56	1	1	1	5	10	14	11	13	11	10	5	20	43	81	184	265
Respiratory tuberculosis	158	4	15	21	38	44	26	4	6	44	152	96	153	188	151	67	122
Other tuberculosis	13	2	1	2	3	2	2	1	—	22	10	9	12	9	12	17	—
Syphilis, etc.	44	—	—	1	10	21	6	2	4	—	—	5	40	90	35	33	81
Syphilis	4	—	—	—	—	3	1	—	—	—	—	—	—	13	6	—	—
Tabes dorsalis	6	—	—	—	1	1	2	1	1	—	—	—	4	4	12	17	20
General paralysis of insane	21	—	—	—	9	12	—	—	—	—	—	—	36	51	—	—	—
Aneurysm	13	—	—	1	—	5	3	1	3	—	—	5	—	21	17	17	61
Cancer, all sites	290	—	—	1	5	49	95	55	85	—	—	5	20	209	550	919	1730
Skin	10	—	—	—	—	2	2	2	4	—	—	—	—	9	12	33	81
Lip	5	—	—	—	—	—	—	—	5	—	—	—	—	—	—	—	102
Tongue	20	—	—	—	1	3	9	5	2	—	—	—	4	13	52	84	41
Œsophagus	25	—	—	—	—	8	7	6	4	—	—	—	—	34	41	100	81
Stomach	51	—	—	—	2	8	19	9	13	—	—	—	8	34	110	150	265
Other sites	179	—	—	1	2	28	58	33	57	—	—	5	8	119	336	552	1160
Chronic rheumatism, etc., Gout	10	—	—	—	—	1	4	—	5	—	—	—	—	4	23	—	102
Diabetes	11	1	—	—	—	1	3	2	4	11	—	—	—	4	17	33	81
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	143	—	1	—	3	10	34	23	72	—	10	—	12	43	197	384	1465
Other dis. of the nervous system	63	—	1	3	7	8	20	12	12	—	10	14	28	34	116	201	244
Valvular disease of heart	148	—	1	4	13	17	50	22	41	—	10	18	52	73	290	368	834
Other heart disease	156	—	—	4	7	17	32	24	72	—	—	18	28	73	185	401	1465
Arterio-sclerosis	109	—	—	—	1	5	12	14	77	—	—	—	4	21	70	234	1567
Other dis. of circulatory system	5	1	—	—	1	1	—	—	2	11	—	—	4	4	—	—	41
Bronchitis	201	—	1	1	6	12	37	40	104	—	10	5	24	51	214	669	2116
Pneumonia	151	1	—	12	25	30	43	19	21	11	—	55	101	128	249	318	427
Chronic interstitial pneumonia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	6	—	—
Other dis. of respiratory system	35	—	—	1	3	9	6	5	11	—	—	5	12	38	35	84	224
Ulcer of stomach	12	—	—	1	1	6	1	1	2	—	—	5	4	26	6	17	41
Ulcer of duodenum	5	—	—	1	1	1	1	1	—	—	—	5	4	4	6	17	—
Appendicitis	11	2	—	1	1	1	5	1	—	22	—	5	4	4	29	17	—
Hernia	11	—	1	1	—	1	3	2	3	—	10	5	—	4	17	33	61
Intestinal obstruction	8	—	—	—	1	2	2	1	2	—	—	—	4	9	12	17	41
Cirrhosis of liver	15	—	—	—	1	5	4	1	4	—	—	—	4	21	23	17	81
Other dis. of digestive system	31	1	—	2	1	4	7	2	14	11	—	9	4	17	41	33	285
Acute nephritis	7	1	—	—	—	1	3	—	2	11	—	—	—	4	17	—	41
Chronic nephritis	62	—	—	2	3	12	21	10	14	—	—	9	12	51	122	167	285
Diseases of the prostate	26	—	—	—	—	—	2	6	18	—	—	—	—	—	12	100	366
Other genito-urinary diseases	25	—	—	—	—	4	6	6	9	—	—	—	—	17	35	100	183
Old age	121	—	—	—	—	—	5	5	111	—	—	—	—	—	29	84	2259
Suicide	41	1	1	3	8	13	6	4	5	11	10	14	32	55	35	67	102
Accident	69	2	1	8	8	18	14	5	13	22	10	37	32	77	81	84	265
Other causes	66	2	1	5	10	10	12	9	17	—	—	—	—	—	—	—	—
All causes	2,104	19	25	75	162	315	477	288	743	207	253	343	653	1344	2764	4814	15120
Years of life (Census population × 3)	117,351	9,186	9,888	21,864	24,819	23,439	17,259	5,982	4,914								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	84	72	86	102	116	107	96	111								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,046
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	106

OCCUPATIONAL GROUP 117.—BARGEMEN AND BOATMEN (738).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	54	1	2	5	4	15	10	6	11	19	33	40	25	100	96	169	299
Respiratory tuberculosis	113	6	9	19	28	30	17	4	—	116	151	150	178	200	164	113	—
Other tuberculosis	8	—	—	1	1	4	—	—	2	—	—	8	6	27	—	—	54
Syphilis, etc.	40	—	—	1	12	15	8	2	2	—	—	8	76	100	77	56	54
Syphilis	5	—	—	1	—	2	2	—	—	—	—	8	—	13	19	—	—
Tabes dorsalis	3	—	—	—	—	1	1	—	1	—	—	—	—	7	10	—	27
General paralysis of insane	18	—	—	—	9	5	2	1	1	—	—	—	57	33	19	28	27
Aneurysm	14	—	—	—	3	7	3	1	—	—	—	—	19	47	29	28	—
Cancer, all sites	204	—	—	2	7	29	67	32	67	—	—	16	45	194	645	902	1823
Skin	16	—	—	—	—	1	6	2	7	—	—	—	—	7	58	56	190
Lip	8	—	—	—	—	—	2	1	5	—	—	—	—	—	19	28	136
Tongue	11	—	—	—	1	—	3	1	6	—	—	—	6	—	29	28	163
Œsophagus	17	—	—	—	—	2	6	6	3	—	—	—	—	13	58	169	82
Stomach	43	—	—	2	1	9	14	7	10	—	—	16	6	60	135	197	272
Other sites	109	—	—	—	5	17	36	15	36	—	—	—	32	114	347	423	980
Chronic rheumatism, etc., Gout	8	—	—	—	—	—	—	3	5	—	—	—	—	—	—	85	136
Diabetes	10	—	—	—	1	1	3	2	3	—	—	—	6	7	29	56	82
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	115	—	—	—	3	10	28	15	59	—	—	—	19	67	270	423	1605
Other dis. of the nervous system	34	1	2	3	3	6	9	1	9	19	33	24	19	40	87	28	245
Valvular disease of heart	98	—	—	4	6	21	25	19	23	—	—	32	38	140	241	535	626
Other heart disease	126	—	—	2	7	18	27	14	58	—	—	16	45	120	260	394	1578
Arterio-sclerosis	73	—	—	—	—	5	11	18	39	—	—	—	—	33	106	507	1061
Other dis. of circulatory system	3	—	—	—	—	1	—	1	1	—	—	—	—	7	—	28	27
Bronchitis	157	—	—	1	4	7	32	25	88	—	—	8	25	47	308	704	2395
Pneumonia	105	1	1	5	15	18	24	16	25	19	17	40	96	120	231	451	680
Chronic interstitial pneumonia	2	—	—	—	1	—	—	—	1	—	—	—	6	—	—	—	27
Other dis. of respiratory system	21	—	2	2	3	3	1	3	7	—	33	16	19	20	10	85	190
Ulcer of stomach	11	—	—	1	4	3	1	1	1	—	—	8	25	20	10	28	27
Ulcer of duodenum	1	—	—	—	—	1	—	—	—	—	—	—	—	7	—	—	—
Appendicitis	5	—	—	1	—	1	1	—	2	—	—	8	—	7	10	—	54
Hernia	7	—	—	1	1	—	1	1	3	—	—	8	6	—	10	28	82
Intestinal obstruction	4	—	—	—	—	1	1	1	1	—	—	—	—	7	10	28	27
Cirrhosis of liver	13	—	—	—	—	3	1	4	5	—	—	—	—	20	10	113	136
Other dis. of digestive system	13	1	—	1	1	—	1	4	5	19	—	8	6	—	10	113	136
Acute nephritis	4	—	—	—	—	1	1	1	1	—	—	—	—	7	10	28	27
Chronic nephritis	44	—	—	1	3	10	12	7	11	—	—	8	19	67	116	197	299
Diseases of the prostate	17	—	—	—	—	1	—	2	14	—	—	—	—	7	—	56	381
Other genito-urinary diseases	27	—	—	—	2	5	9	3	8	—	—	—	13	33	87	85	218
Old age	121	—	—	—	—	—	3	6	112	—	—	—	—	—	29	169	3048
Suicide	13	—	—	—	2	2	3	3	3	—	—	—	13	13	29	85	82
Accident	113	19	10	15	23	20	11	6	9	369	167	119	147	134	106	169	245
Other causes	44	2	2	4	6	6	6	4	14	—	—	—	—	—	—	—	—
All causes	1,608	31	28	69	137	237	313	204	589	601	469	546	873	1583	3015	5748	16027
Years of life (Census population × 3)	72,033	5,154	5,973	12,639	15,690	14,973	10,380	3,549	3,675								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	243	133	137	137	137	117	115	118								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,290
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	128

OCCUPATIONAL GROUP 118.—STEVEDORES (743).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	6	—	—	—	3	1	—	1	1	—	—	—	67	26	—	176	200
Respiratory tuberculosis	50	—	3	6	17	16	8	—	—	—	295	206	382	417	397	—	—
Other tuberculosis	1	—	—	1	—	—	—	—	—	—	—	34	—	—	—	—	—
Syphilis, etc.	7	—	—	—	1	2	4	—	—	—	—	—	22	52	198	—	—
Syphilis	1	—	—	—	1	—	—	—	—	—	—	—	22	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	2	—	—	—	—	1	1	—	—	—	—	—	—	26	50	—	—
Aneurysm	4	—	—	—	—	1	3	—	—	—	—	—	—	26	149	—	—
Cancer, all sites	51	—	—	1	3	8	15	10	14	—	—	34	67	208	744	1764	2794
Skin	3	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	599
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	4	—	—	—	—	—	3	1	—	—	—	—	—	—	149	176	—
Œsophagus	4	—	—	—	—	1	3	—	—	—	—	—	—	26	149	—	—
Stomach	9	—	—	—	—	3	2	2	2	—	—	—	—	78	99	353	399
Other sites	31	—	—	1	3	4	7	7	9	—	—	34	67	104	347	1235	1796
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	176	—
Diabetes	1	—	—	—	—	—	1	—	—	—	—	—	—	—	50	—	—
Alcoholism	1	—	—	—	1	—	—	—	—	—	—	—	22	—	—	—	—
Cerebral hæmorrhage, etc.	18	—	—	—	—	2	3	4	9	—	—	—	—	52	149	705	1796
Other dis. of the nervous system	5	—	—	—	—	2	1	1	1	—	—	—	—	52	50	176	200
Valvular disease of heart	26	—	—	1	3	7	3	3	9	—	—	34	67	182	149	529	1796
Other heart disease	27	—	—	—	2	6	3	6	10	—	—	—	45	156	149	1058	1996
Arterio-sclerosis	7	—	—	—	—	—	4	1	2	—	—	—	—	—	198	176	399
Other dis. of circulatory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	200
Bronchitis	39	—	—	—	1	1	12	7	18	—	—	—	22	26	595	1235	3593
Pneumonia	33	—	1	2	11	5	10	1	3	—	98	69	247	130	496	176	599
Chronic interstitial pneumonia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	200
Other dis. of respiratory system	8	—	—	—	2	3	2	—	1	—	—	—	45	78	99	—	200
Ulcer of stomach	10	—	—	—	3	3	2	2	—	—	—	—	67	78	99	353	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	4	1	—	—	2	1	—	—	—	422	—	—	45	26	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	3	—	—	—	—	1	—	1	1	—	—	—	—	26	—	176	200
Other dis. of digestive system	3	—	—	—	1	—	1	—	1	—	—	—	22	—	50	—	200
Acute nephritis	1	—	—	—	—	1	—	—	—	—	—	—	—	26	—	—	—
Chronic nephritis	12	—	—	—	—	4	4	2	2	—	—	—	—	104	198	353	399
Diseases of the prostate	3	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	599
Other genito-urinary diseases	5	—	—	—	—	2	—	2	1	—	—	—	—	52	—	353	200
Old age	21	—	—	—	—	—	1	—	20	—	—	—	—	—	50	—	3992
Suicide	8	—	—	1	—	4	3	—	—	—	—	34	—	104	149	—	—
Accident	10	—	—	1	4	4	1	—	—	—	—	34	90	104	50	—	—
Other causes	14	—	—	4	—	4	1	—	5	—	—	—	—	—	—	—	—
All causes	377	1	4	17	54	77	79	42	103	422	393	584	1215	2007	3919	7407	20559
Years of life (Census population × 3)	15,534	237	1,017	2,913	4,446	3,837	2,016	567	501								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	171	112	146	190	174	152	148	151								

All Causes—ages 20-65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,619
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	165

OCCUPATIONAL GROUP 119.—COAL BOAT LOADERS AND DISCHARGERS (744).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	14	—	—	1	5	3	4	—	1	—	—	27	81	47	112	—	175
Respiratory tuberculosis	31	1	2	3	10	9	5	—	1	333	299	82	161	141	139	—	175
Other tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis, etc.	13	—	—	—	3	5	4	—	1	—	—	—	48	78	112	—	175
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	4	—	—	—	1	—	3	—	—	—	—	—	16	—	84	—	—
General paralysis of insane	5	—	—	—	1	4	—	—	—	—	—	—	16	63	—	—	—
Aneurysm	4	—	—	—	1	1	1	—	1	—	—	—	16	16	28	—	175
Cancer, all sites	61	—	—	2	4	18	18	8	11	—	—	54	64	282	502	936	1930
Skin	4	—	—	—	—	2	1	—	1	—	—	—	—	31	28	—	175
Lip	2	—	—	—	—	—	1	1	—	—	—	—	—	—	28	117	—
Tongue	7	—	—	—	—	2	4	—	1	—	—	—	—	31	112	—	175
Œsophagus	9	—	—	—	—	3	2	1	3	—	—	—	—	47	56	117	526
Stomach	6	—	—	—	1	—	2	2	1	—	—	—	16	—	56	234	175
Other sites	33	—	—	2	3	11	8	4	5	—	—	54	48	172	223	468	877
Chronic rheumatism, etc., Gout	2	—	—	—	1	—		—	1	—	—	—	16	—	—	—	175
Diabetes	4	—	—	—	1	1	1	1	—	—	—	—	16	16	28	117	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	28	—	—	1	—	3	6	6	12	—	—	27	—	47	167	702	2105
Other dis. of the nervous system	8	—	—	—	5	1	—	2	—	—	—	—	81	16	—	234	—
Valvular disease of heart	32	—	—	1	2	5	10	8	6	—	—	27	32	78	279	936	1053
Other heart disease	29	—	—	2	3	2	12	3	7	—	—	54	48	31	335	351	1228
Arterio-sclerosis	28	—	—	—	1	3	6	3	15	—	—	—	16	47	167	351	2632
Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	28	—	—
Bronchitis	52	—	—	—	1	5	18	11	17	—	—	—	16	78	502	1287	2982
Pneumonia	42	1	1	3	8	13	9	3	4	333	149	82	129	204	251	351	702
Chronic interstitial pneumonia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	117	—
Other dis. of respiratory system	10	—	—	—	2	1	3	1	3	—	—	—	32	16	84	117	526
Ulcer of stomach	3	—	—	—	1	2	—	—	—	—	—	—	16	31	—	—	—
Ulcer of duodenum	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	117	—
Appendicitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hernia	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	117	175
Intestinal obstruction	1	—	—	—	—	1	—	—	—	—	—	—	—	16	—	—	—
Cirrhosis of liver	2	—	—	1	—	1	—	—	—	—	—	27	—	16	—	—	—
Other dis. of digestive system	6	—	—	—	—	1	2	2	1	—	—	—	—	16	56	234	175
Acute nephritis	2	—	—	—	1	—	1	—	—	—	—	—	16	—	28	—	—
Chronic nephritis	13	—	—	—	2	4	4	3	—	—	—	—	32	63	112	351	—
Diseases of the prostate	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	175
Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	14	—	—	—	—	—	1	1	12	—	—	—	—	—	28	117	2105
Suicide	3	—	—	—	1	2	—	—	—	—	—	—	16	31	—	—	—
Accident	18	—	—	3	4	2	4	5	—	—	—	82	64	31	112	585	—
Other causes	10	—	—	1	1	4	1	1	2	—	—	—	—	—	—	—	—
All causes	432	2	3	18	56	86	110	61	96	667	448	489	902	1346	3068	7135	16842
Years of life (Census population × 3)	22,254	300	669	3,678	6,210	6,387	3,585	855	570								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	270	127	123	141	116	119	143	124								

All Causes—ages 20-65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,231
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	122

OCCUPATIONAL GROUP 120.—OTHER DOCK LABOURERS (745).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	133	—	1	15	23	32	37	14	11	—	5	29	33	45	91	129	203
Respiratory tuberculosis	836	13	40	83	231	274	147	30	18	135	192	158	336	389	360	276	332
Other tuberculosis	44	1	6	6	6	12	9	3	1	10	29	11	9	17	22	28	18
Syphilis, etc.	151	—	—	8	45	49	34	12	3	—	—	15	65	70	83	111	55
Syphilis	17	—	—	2	5	4	5	—	1	—	—	4	7	6	12	—	18
Tabes dorsalis	18	—	—	—	3	10	3	2	—	—	—	—	4	14	7	18	—
General paralysis of insane	80	—	—	6	32	23	14	5	—	—	—	11	46	33	34	46	—
Aneurysm	36	—	—	—	5	12	12	5	2	—	—	—	7	17	29	46	37
Cancer, all sites	710	—	1	12	33	184	274	106	100	—	5	23	48	261	670	976	1843
Skin	13	—	—	—	1	3	2	3	4	—	—	—	1	4	5	28	74
Lip	5	—	—	—	—	—	2	—	3	—	—	—	—	—	5	—	55
Tongue	67	—	—	—	4	22	31	5	5	—	—	—	6	31	76	46	92
Œsophagus	48	—	—	—	1	11	22	11	3	—	—	—	1	16	54	101	55
Stomach	169	—	—	5	11	46	64	24	19	—	—	10	16	65	157	221	350
Other sites	408	—	1	7	16	102	153	63	66	—	5	13	23	145	374	580	1217
Chronic rheumatism, etc., Gout	25	—	—	—	—	4	6	7	8	—	—	—	—	6	15	64	147
Diabetes	21	1	1	2	2	8	4	3	—	10	5	4	3	11	10	28	—
Alcoholism	4	—	—	—	2	1	1	—	—	—	—	—	3	1	2	—	—
Cerebral hæmorrhage, etc.	287	—	—	3	18	39	91	52	84	—	—	6	26	55	223	479	1548
Other dis. of the nervous system	119	1	2	13	27	27	32	8	9	10	10	25	39	38	78	74	166
Valvular disease of heart	317	1	3	14	34	67	110	39	49	10	14	27	49	95	269	359	903
Other heart disease	417	1	2	11	35	78	106	70	114	10	10	21	51	111	259	645	2102
Arterio-sclerosis	218	—	—	2	5	12	56	47	96	—	—	4	7	17	137	433	1770
Other dis. of circulatory system	8	1	—	—	3	4	—	—	—	10	—	—	4	6	—	—	—
Bronchitis	618	—	1	8	36	113	183	107	170	—	5	15	52	160	448	986	3134
Pneumonia	558	3	13	37	107	140	141	51	66	31	62	71	155	199	345	470	1217
Chronic interstitial pneumonia	4	—	—	—	—	1	1	2	—	—	—	—	—	1	2	18	—
Other dis. of respiratory system	86	—	2	5	11	28	23	3	14	—	10	10	16	40	56	28	258
Ulcer of stomach	51	—	1	—	10	25	10	5	—	—	5	—	15	35	24	46	—
Ulcer of duodenum	25	—	1	1	11	5	5	2	—	—	5	2	16	7	12	18	—
Appendicitis	15	—	1	4	2	3	3	2	—	—	5	8	3	4	7	18	—
Hernia	25	—	—	1	6	2	6	4	6	—	—	2	9	3	15	37	111
Intestinal obstruction	26	—	—	—	3	4	14	1	4	—	—	—	4	6	34	9	74
Cirrhosis of liver	45	—	—	1	4	12	17	8	3	—	—	2	6	17	42	74	55
Other dis. of digestive system	74	1	2	3	10	21	19	4	14	10	10	6	15	30	46	37	259
Acute nephritis	15	—	—	1	5	4	4	1	—	—	—	2	7	6	10	9	—
Chronic nephritis	154	—	2	7	13	41	44	20	27	—	10	13	19	58	108	184	498
Diseases of the prostate	26	—	—	—	—	—	8	6	12	—	—	—	—	—	20	55	221
Other genito-urinary diseases	70	—	2	1	8	15	19	11	14	—	10	2	12	21	46	101	258
Old age	182	—	—	—	—	—	12	18	152	—	—	—	—	—	29	166	2802
Suicide	76	—	2	7	17	25	17	6	2	—	10	13	25	35	42	55	37
Accident	217	4	8	23	49	57	44	17	15	42	38	44	71	81	108	157	277
Other causes	153	5	3	14	25	34	44	12	16	—	—	—	—	—	—	—	—
All causes	5,710	32	94	282	781	1,321	1,521	671	1,008	333	451	538	1135	1875	3721	6180	18584
Years of life (Census population × 3)	279,339	9,621	20,829	52,452	68,817	70,464	40,875	10,857	5,424								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	135	128	135	178	162	145	124	137								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,532

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 155

OCCUPATIONAL GROUP 121.—MESSENGERS, HALL PORTERS, LIFT ATTENDANTS, ETC. (757, 758, 917.)

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	54	10	1	5	5	10	9	7	7	11	10	29	26	47	63	167	206
Respiratory tuberculosis	287	80	34	42	41	42	35	7	6	85	352	246	214	199	243	167	177
Other tuberculosis	36	22	5	3	1	3	—	2	—	23	52	18	5	14	—	48	—
Syphilis, etc.	41	1	—	—	9	17	8	3	3	1	—	—	47	81	56	71	88
Syphilis	5	1	—	—	—	1	1	2	—	1	—	—	—	5	7	48	—
Tabes dorsalis	6	—	—	—	—	2	3	—	1	—	—	—	—	9	21	—	29
General paralysis of insane	14	—	—	—	6	6	2	—	—	—	—	—	31	28	14	—	—
Aneurysm	16	—	—	—	3	8	2	1	2	—	—	—	16	38	14	24	59
Cancer, all sites	223	4	1	2	10	36	86	40	44	4	10	12	52	171	598	953	1294
Skin	2	—	—	—	2	—	—	—	—	—	—	—	10	—	—	—	—
Lip	1	—	—	—	—	—	1	—	—	—	—	—	—	—	7	—	—
Tongue	8	—	—	—	—	1	3	1	3	—	—	—	—	5	21	24	88
Œsophagus	28	—	—	—	—	8	11	3	6	—	—	—	—	38	76	71	177
Stomach	43	—	—	—	4	4	17	10	8	—	—	—	21	19	118	238	235
Other sites	141	4	1	2	4	23	54	26	27	4	10	12	21	109	375	619	794
Chronic rheumatism, etc., Gout	4	—	—	—	—	—	1	2	1	—	—	—	—	—	7	48	29
Diabetes	9	1	—	1	1	1	1	4	—	1	—	6	5	5	7	95	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	77	—	—	1	3	10	20	12	31	—	—	6	16	47	139	286	912
Other dis. of the nervous system	57	13	7	5	2	12	12	3	3	14	73	29	10	57	83	71	88
Valvular disease of heart	134	10	4	10	9	26	36	20	19	11	41	58	47	123	250	477	559
Other heart disease	137	16	4	3	6	16	34	21	37	17	41	18	31	76	236	500	1089
Arterio-sclerosis	57	—	—	—	2	5	11	14	25	—	—	—	10	24	76	333	735
Other dis. of circulatory system	3	—	—	—	—	1	—	1	1	—	—	—	—	5	—	24	29
Bronchitis	118	1	—	2	4	14	21	21	55	1	—	12	21	66	146	500	1618
Pneumonia	140	15	8	10	16	20	35	19	17	16	83	58	84	95	243	453	500
Chronic interstitial pneumonia	1	—	—	—	—	1	—	—	—	—	—	—	—	5	—	—	—
Other dis. of respiratory system	24	3	—	—	1	8	5	2	5	3	—	—	5	38	35	48	147
Ulcer of stomach	21	1	1	1	6	6	3	2	1	1	10	6	31	28	21	48	29
Ulcer of duodenum	5	—	—	1	—	1	2	1	—	—	—	6	—	5	14	24	—
Appendicitis	11	8	1	1	—	—	—	1	—	9	10	6	—	—	—	24	—
Hernia	7	—	—	—	—	2	3	—	2	—	—	—	—	9	21	—	59
Intestinal obstruction	12	2	—	—	1	4	1	1	3	2	—	—	5	19	7	24	88
Cirrhosis of liver	12	1	—	—	2	1	4	2	2	1	—	—	10	5	28	48	59
Other dis. of digestive system	31	4	—	2	5	5	4	4	7	4	—	12	26	24	28	95	206
Acute nephritis	1	—	—	—	—	1	—	—	—	—	—	—	—	5	—	—	—
Chronic nephritis	37	2	1	—	2	5	16	3	8	2	10	—	10	24	111	71	235
Diseases of the prostate	9	—	—	—	—	—	1	3	5	—	—	—	—	—	7	71	147
Other genito-urinary diseases	16	—	—	1	2	5	3	4	1	—	—	6	10	24	21	95	29
Old age	35	—	—	—	—	—	2	1	32	—	—	—	—	—	14	24	941
Suicide	29	5	—	2	2	9	6	4	1	5	—	12	10	43	42	95	29
Accident	78	32	10	7	4	4	9	3	9	34	104	41	21	19	63	71	265
Other causes	75	25	9	4	5	8	7	9	8	—	—	—	—	—	—	—	—
All causes	1,781	256	86	103	139	273	375	216	333	272	891	602	725	1294	2607	5147	9797
Years of life (Census population × 3)	182,958	93,969	9,648	17,106	19,161	21,096	14,382	4,197	3,399								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	110	253	151	113	112	101	103	72								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,200

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 116

OCCUPATIONAL GROUP 122.—PORTERS (759).

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	
98	4	3	7	22	19	22	11	10	16	17	22	56	47	83	137	196	Influenza
509	46	43	57	115	140	81	19	8	182	239	178	294	346	306	237	157	Respiratory tuberculosis
28	11	5	3	2	3	3	1	—	43	28	9	5	7	11	12	—	Other tuberculosis
92	1	—	4	21	35	22	7	2	4	—	12	54	87	83	87	39	Syphilis, etc.
11	1	—	—	2	5	2	1	—	4	—	—	5	12	8	12	—	Syphilis
13	—	—	—	2	6	4	1	—	—	—	—	5	15	15	12	—	Tabes dorsalis
45	—	—	4	16	14	8	2	1	—	—	12	41	35	30	25	20	General paralysis of insane
23	—	—	—	1	10	8	3	1	—	—	—	3	25	30	37	20	Aneurysm
516	1	1	6	32	114	184	83	95	4	6	19	82	282	696	1036	1863	Cancer, all sites
13	—	—	—	—	2	4	3	4	—	—	—	—	5	15	37	78	Skin
2	—	—	—	—	1	—	—	1	—	—	—	—	2	—	—	20	Lip
56	—	—	—	—	10	24	7	15	—	—	—	—	25	91	87	294	Tongue
62	—	—	—	1	13	25	12	11	—	—	—	3	32	95	150	216	Œsophagus
105	1	—	1	7	27	37	19	13	4	—	3	18	67	140	237	255	Stomach
278	—	1	5	24	61	94	42	51	—	6	16	61	151	356	524	1000	Other sites
14	—	—	—	—	1	6	4	3	—	—	—	—	2	23	50	59	Chronic rheumatism, etc., Gout
22	—	4	3	—	2	5	4	4	—	22	9	—	5	19	50	78	Diabetes
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism
196	—	2	1	9	19	52	50	63	—	11	3	23	47	197	624	1235	Cerebral hæmorrhage, etc.
78	5	3	12	11	22	16	6	3	20	17	37	28	54	61	75	59	Other dis. of the nervous system
218	4	7	13	25	33	63	30	43	16	39	41	64	82	238	374	843	Valvular disease of heart
314	6	7	17	21	44	83	42	94	24	39	53	54	109	314	524	1843	Other heart disease
130	—	—	1	—	11	39	31	48	—	—	3	—	27	148	387	941	Arterio-sclerosis
3	—	—	1	—	1	1	—	—	—	—	3	—	2	4	—	—	Other dis. of circulatory system
360	—	2	6	25	52	93	67	115	—	11	19	64	129	352	836	2255	Bronchitis
319	10	3	29	56	69	79	36	37	39	17	90	143	171	299	449	725	Pneumonia
3	—	—	—	1	1	1	—	—	—	—	—	3	2	4	—	—	Chronic interstitial pneumonia
39	—	—	2	9	11	7	3	7	—	—	6	23	27	26	37	137	Other dis. of respiratory system
35	—	2	6	5	12	7	3	—	—	11	19	13	30	26	37	—	Ulcer of stomach
11	—	—	1	6	2	2	—	—	—	—	3	15	5	8	—	—	Ulcer of duodenum
22	3	4	4	4	1	2	3	1	12	22	12	10	2	8	37	20	Appendicitis
12	—	—	—	1	6	3	2	—	—	—	—	3	15	11	25	—	Hernia
25	2	2	—	6	2	7	4	2	8	11	—	15	5	26	50	39	Intestinal obstruction
17	—	—	1	3	3	5	2	3	—	—	3	8	7	19	25	59	Cirrhosis of liver
48	1	3	1	7	10	11	10	5	4	17	3	18	25	42	125	98	Other dis. of digestive system
10	1	1	1	—	3	2	2	—	4	6	3	—	7	8	25	—	Acute nephritis
91	1	1	2	7	21	25	13	21	4	6	6	18	52	95	162	412	Chronic nephritis
19	—	—	—	—	1	3	2	13	—	—	—	—	2	11	25	255	Diseases of the prostate
41	—	—	3	4	5	11	5	13	—	—	9	10	12	42	62	255	Other genito-urinary diseases
146	—	—	—	—	—	11	13	122	—	—	—	—	—	42	162	2392	Old age
51	—	1	3	12	20	8	4	3	—	6	9	31	49	30	50	59	Suicide
101	7	3	11	16	19	28	7	10	28	17	34	41	47	106	87	196	Accident
111	7	5	9	10	27	27	15	11	—	—	—	—	—	—	—	—	Other causes
3,679	110	102	204	430	709	909	479	736	434	567	637	1100	1754	3438	5978	14431	All causes
194,433	25,323	17,985	32,046	39,105	40,422	26,439	8,013	5,100									Years of life (Census population × 3)
—	176	161	160	172	152	134	120	106									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,497

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 148

OCCUPATIONAL GROUP 123.—PROPRIETORS AND MANAGERS OF WHOLESALE OR RETAIL DEALING BUSINESSES (770).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	815	1	6	53	123	123	179	97	233	9	14	23	34	36	81	134	273
Respiratory tuberculosis	1,554	9	55	279	487	394	234	62	34	85	132	121	136	115	106	86	40
Other tuberculosis	186	3	13	37	48	44	23	7	11	28	31	16	13	13	10	10	13
Syphilis, etc.	480	1	1	10	94	147	150	37	40	9	2	4	26	43	68	51	47
Syphilis	40	1	1	2	11	10	12	—	3	9	2	1	3	3	5	—	4
Tabes dorsalis	125	—	—	—	11	32	58	16	8	—	—	—	3	9	26	22	9
General paralysis of insane	191	—	—	7	55	72	46	5	6	—	—	3	15	21	21	7	7
Aneurysm	124	—	—	1	17	33	34	16	23	—	—	0	5	10	15	22	27
Cancer, all sites	3.424	2	2	26	133	483	1,029	617	1,132	19	5	11	37	141	467	854	1328
Skin	87	—	—	—	—	8	20	16	43	—	—	—	—	2	9	22	50
Lip	18	—	—	—	—	1	6	2	9	—	—	—	—	0	3	3	11
Tongue	139	—	—	—	4	27	49	24	35	—	—	—	1	8	22	33	41
Œsophagus	196	—	—	—	5	33	76	39	43	—	—	—	1	10	35	54	50
Stomach	738	—	—	4	35	110	216	151	222	—	—	2	10	32	98	209	260
Other sites	2,246	2	2	22	89	304	662	385	780	19	5	10	25	88	301	533	915
Chronic rheumatism, etc., Gout	122	—	—	1	1	10	27	27	56	—	—	0	0	3	12	37	66
Diabetes	490	1	3	16	19	71	128	80	172	9	7	7	5	21	58	111	202
Alcoholism	44	—	—	—	8	22	9	3	2	—	—	—	2	6	4	4	2
Cerebral hæmorrhage, etc.	2,227	—	—	10	45	185	462	360	1,165	—	—	4	13	54	210	498	1366
Other dis. of the nervous system	722	1	9	44	80	137	162	83	206	9	22	19	22	40	74	115	242
Valvular disease of heart	1,776	2	7	49	122	255	402	315	624	9	17	21	34	74	183	436	732
Other heart disease	2,893	2	10	53	131	328	637	474	1,258	19	24	23	37	95	289	656	1476
Arterio-sclerosis	1,477	—	—	—	16	94	273	224	870	—	—	—	4	27	124	310	1020
Other dis. of circulatory system	91	—	—	2	7	16	26	12	28	—	—	1	2	5	12	17	33
Bronchitis	1,907	—	2	12	51	128	280	239	1,195	—	5	5	14	37	127	331	1401
Pneumonia	1,750	8	14	118	270	351	338	205	446	75	34	51	75	102	153	284	523
Chronic interstitial pneumonia	21	—	—	—	—	4	11	4	2	—	—	—	—	1	5	6	2
Other dis. of respiratory system	445	2	1	17	37	98	87	67	136	19	2	7	10	29	39	93	160
Ulcer of stomach	133	1	—	6	26	43	27	10	20	9	—	3	7	13	12	14	23
Ulcer of duodenum	102	—	—	4	22	34	22	8	12	—	—	2	6	10	10	11	14
Appendicitis	185	3	10	22	35	47	36	14	18	28	24	10	10	14	16	19	21
Hernia	137	—	—	1	6	18	26	21	65	—	—	0	2	5	12	29	76
Intestinal obstruction	165	1	1	3	12	22	36	30	60	9	2	1	3	6	16	42	70
Cirrhosis of liver	374	—	—	3	52	96	126	46	51	—	—	1	15	28	57	64	60
Other dis. of digestive system	559	2	1	11	38	98	119	78	212	19	2	5	11	29	54	108	249
Acute nephritis	88	—	—	6	17	19	21	15	10	—	—	3	5	6	10	21	12
Chronic nephritis	1,168	—	2	30	76	193	309	175	383	—	5	13	21	56	140	242	449
Diseases of the prostate	538	—	—	—	—	6	59	88	385	—	—	—	—	2	27	122	452
Other genito-urinary diseases	313	1	—	4	13	37	59	38	161	9	—	2	4	11	27	53	189
Old age	1,802	—	—	—	—	1	14	44	1,743	—	—	—	—	0	6	61	2044
Suicide	578	2	12	32	97	193	154	41	47	19	29	14	27	56	70	57	55
Accident	598	7	16	47	95	121	119	57	136	66	39	20	27	35	54	79	160
Other causes	988	3	15	66	112	179	247	145	221	—	—	—	—	—	—	—	—
All causes	28,152	52	180	962	2,273	3,997	5,831	3,723	11,134	490	433	416	634	1163	2647	5150	13058
Years of life (Census population × 3)	1,363,374	10,614	41,523	231,267	358,476	343,671	220,263	72,294	85,266								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	198	123	104	99	101	103	103	96								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,029

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 102

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

OCCUPATIONAL GROUP 123a.—PROPRIETORS AND MANAGERS OF BUSINESSES FOR THE SALE OF FISH, MEAT, GREENGROCERY, AND MILK (Occ. 770. Ind. 612–9).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	179	—	2	14	40	30	35	11	47	—	17	24	46	39	80	78	289
Respiratory tuberculosis	390	6	20	81	124	83	60	10	6	162	171	137	143	109	137	71	37
Other tuberculosis	39	1	1	6	13	10	6	—	2	27	9	10	15	13	14	—	12
Syphilis, etc.	114	—	—	4	26	39	31	7	7	—	—	7	30	51	71	50	43
Syphilis	7	—	—	—	2	3	2	—	—	—	—	—	2	4	5	—	—
Tabes dorsalis	30	—	—	—	7	8	11	4	—	—	—	—	8	10	25	28	—
General paralysis of insane	51	—	—	4	14	20	11	1	1	—	—	7	16	26	25	7	6
Aneurysm	26	—	—	—	3	8	7	2	6	—	—	—	3	10	16	14	37
Cancer, all sites	777	—	—	8	33	120	251	126	239	—	—	13	38	157	574	892	1468
Skin	23	—	—	—	—	2	5	3	13	—	—	—	—	3	11	21	80
Lip	4	—	—	—	—	—	2	—	2	—	—	—	—	—	5	—	12
Tongue	35	—	—	—	—	13	11	6	5	—	—	—	—	17	25	42	31
Œsophagus	53	—	—	—	1	9	28	6	9	—	—	—	1	12	64	42	55
Stomach	176	—	—	—	8	22	60	37	49	—	—	—	9	29	137	262	301
Other sites	486	—	—	8	24	74	145	74	161	—	—	13	28	97	331	524	989
Chronic rheumatism, etc., Gout	27	—	—	—	1	4	6	7	9	—	—	—	1	5	14	50	55
Diabetes	111	1	1	5	7	17	33	20	27	27	9	8	8	22	75	142	166
Alcoholism	13	—	—	—	3	8	2	—	—	—	—	—	3	10	5	—	—
Cerebral hæmorrhage, etc.	510	—	—	3	14	48	107	77	261	—	—	5	16	63	244	545	1603
Other dis. of the nervous system	146	1	3	13	18	35	27	17	32	27	26	22	21	46	62	120	197
Valvular disease of heart	413	—	3	15	39	71	97	62	126	—	26	25	45	93	222	439	774
Other heart disease	619	—	4	16	36	95	158	83	227	—	34	27	41	124	361	588	1394
Arterio-sclerosis	276	—	—	—	3	17	52	38	166	—	—	—	3	22	119	269	1020
Other dis. of circulatory system	21	—	—	—	2	5	6	2	6	—	—	—	2	7	14	14	37
Bronchitis	481	—	1	6	14	33	85	60	282	—	9	10	16	43	194	425	1732
Pneumonia	412	2	2	38	84	88	86	31	81	54	17	64	97	115	197	219	498
Chronic interstitial pneumonia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	7	—
Other dis. of respiratory system	104	1	—	5	10	24	21	20	23	27	—	8	12	31	48	142	141
Ulcer of stomach	27	1	—	2	8	7	5	—	4	27	—	3	9	9	11	—	25
Ulcer of duodenum	16	—	—	3	4	5	3	1	—	—	—	5	5	7	7	7	—
Appendicitis	37	—	1	8	8	11	4	3	2	—	9	13	9	14	9	21	12
Hernia	42	—	—	—	2	7	9	8	16	—	—	—	2	9	21	57	98
Intestinal obstruction	37	—	—	1	3	8	7	6	12	—	—	2	3	10	16	42	74
Cirrhosis of liver	100	—	—	—	12	28	31	14	15	—	—	—	14	37	71	99	92
Other dis. of digestive system	119	1	—	4	10	23	29	19	33	27	—	7	12	30	66	134	203
Acute nephritis	24	—	—	2	7	4	6	3	2	—	—	3	8	5	14	21	12
Chronic nephritis	284	—	1	12	24	52	72	39	84	—	9	20	28	68	165	276	516
Diseases of the prostate	105	—	—	—	—	2	16	24	63	—	—	—	—	3	37	170	387
Other genito-urinary diseases	49	—	—	1	1	5	11	5	26	—	—	2	1	7	25	35	160
Old age	395	—	—	—	—	—	3	15	377	—	—	—	—	—	7	106	2316
Suicide	126	1	6	9	26	38	22	10	14	27	51	15	30	50	50	71	86
Accident	130	1	4	16	26	30	16	14	23	27	34	27	30	39	37	99	141
Other causes	215	2	5	16	32	38	57	20	45	—	—	—	—	—	—	—	—
All causes	6,339	18	54	288	630	985	1,354	753	2,257	486	462	485	726	1289	3094	5330	13863
Years of life (Census population × 3)	312,123	3,705	11,700	59,334	86,787	76,425	43,764	14,127	16,281								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	197	131	122	114	112	120	107	102								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,175
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 117

OCCUPATIONAL GROUP 123b.—PROPRIETORS AND MANAGERS OF BUSINESSES FOR THE SALE OF GROCERY AND PROVISIONS (Occ. 770. Ind. 609–611).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	148	—	—	7	18	23	34	24	42	—	—	19	31	41	96	217	305
Respiratory tuberculosis	198	—	5	32	55	62	30	10	4	—	109	88	94	110	84	91	29
Other tuberculosis	34	1	3	5	8	8	4	1	4	184	65	14	14	14	11	9	29
Syphilis, etc.	67	—	—	2	9	17	26	7	6	—	—	5	15	30	73	63	44
Syphilis	6	—	—	1	1	1	2	—	1	—	—	3	2	2	6	—	7
Tabes dorsalis	18	—	—	—	1	5	9	3	—	—	—	—	2	9	25	27	—
General paralysis of insane	26	—	—	1	6	7	8	2	2	—	—	3	10	12	23	18	15
Aneurysm	17	—	—	—	1	4	7	2	3	—	—	—	2	7	20	18	22
Cancer, all sites	540	—	—	5	17	76	161	107	174	—	—	14	29	134	453	968	1262
Skin	7	—	—	—	—	2	1	—	4	—	—	—	—	4	3	—	29
Lip	3	—	—	—	—	—	1	—	2	—	—	—	—	—	3	—	15
Tongue	16	—	—	—	2	2	6	2	4	—	—	—	3	4	17	18	29
Œsophagus	29	—	—	—	1	6	11	7	4	—	—	—	2	11	31	63	29
Stomach	124	—	—	1	4	17	36	29	37	—	—	3	7	30	101	262	268
Other sites	361	—	—	4	10	49	106	69	123	—	—	11	17	87	298	624	892
Chronic rheumatism, etc., Gout	16	—	—	—	—	—	5	3	8	—	—	—	—	—	14	27	58
Diabetes	91	—	—	4	3	16	25	8	35	—	—	11	5	28	70	72	254
Alcoholism	5	—	—	—	—	1	2	2	—	—	—	—	—	2	6	18	—
Cerebral hæmorrhage, etc.	409	—	—	1	5	33	80	58	232	—	—	3	9	58	225	525	1683
Other dis. of the nervous system	128	—	1	4	16	22	27	22	36	—	22	11	27	39	76	199	261
Valvular disease of heart	297	—	1	13	18	38	72	53	102	—	22	36	31	67	203	480	740
Other heart disease	497	—	2	10	14	45	105	83	238	—	43	27	24	80	296	751	1727
Arterio-sclerosis	271	—	—	—	5	14	55	40	157	—	—	—	9	25	155	362	1139
Other dis. of circulatory system	11	—	—	—	—	2	6	—	3	—	—	—	—	4	17	—	22
Bronchitis	301	—	—	1	6	17	31	28	218	—	—	3	10	30	87	253	1581
Pneumonia	259	3	2	20	30	56	51	29	68	552	43	55	51	99	144	262	493
Chronic interstitial pneumonia	5	—	—	—	—	2	2	1	—	—	—	—	—	4	6	9	—
Other dis. of respiratory system	64	—	—	2	4	16	9	9	24	—	—	5	7	28	25	81	174
Ulcer of stomach	29	—	—	1	9	9	4	—	6	—	—	3	15	16	11	—	44
Ulcer of duodenum	25	—	—	1	5	9	7	1	2	—	—	3	9	16	20	9	15
Appendicitis	21	1	1	3	2	5	5	1	3	184	22	8	3	9	14	9	22
Hernia	27	—	—	1	1	5	4	3	13	—	—	3	2	9	11	27	94
Intestinal obstruction	30	—	1	1	2	6	5	4	11	—	22	3	3	11	14	36	80
Cirrhosis of liver	46	—	—	—	7	15	11	6	7	—	—	—	12	27	31	54	51
Other dis. of digestive system	91	—	1	1	3	22	19	8	37	—	22	3	5	39	53	72	268
Acute nephritis	10	—	—	2	—	4	2	2	—	—	—	5	—	7	6	18	—
Chronic nephritis	194	—	1	4	10	32	58	31	58	—	22	11	17	57	163	281	421
Diseases of the prostate	109	—	—	—	—	—	8	16	85	—	—	—	—	—	23	145	617
Other genito-urinary diseases	64	—	—	—	2	6	9	10	37	—	—	—	3	11	25	91	268
Old age	380	—	—	—	—	—	2	9	369	—	—	—	—	—	6	81	2677
Suicide	77	—	—	2	9	27	29	7	3	—	—	5	15	48	82	63	22
Accident	78	1	—	1	9	17	19	7	24	184	—	3	15	30	53	63	174
Other causes	169	—	—	6	15	27	41	30	50	—	—	—	—	—	—	—	—
All causes	4,691	6	18	129	282	632	948	620	2,056	1105	391	354	480	1118	2668	5611	14915
Years of life (Census population × 3)	217,218	543	4,605	36,402	58,764	56,535	35;535	11,049	13,785								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	447	111	89	75	97	104	112	110								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 955
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 95

OCCUPATIONAL GROUP 123c.—PROPRIETORS AND MANAGERS OF BUSINESSES FOR THE SALE OF TEXTILES AND CLOTHING (Occ. 770. Ind. 635–6).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 124.—SALESMEN AND SHOP ASSISTANTS (775).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
95	—	—	6	11	13	19	9	37	—	—	25	29	33	77	111	393	Influenza	201	24	12	27	35	36	39	13	15	12	8	12	27	41	87	109	159
175	1	3	32	58	42	27	9	3	111	74	134	151	107	110	111	32	Respiratory tuberculosis	1,175	144	223	299	242	157	79	22	9	71	144	131	184	180	177	184	95
24	1	2	1	4	9	6	—	1	111	50	4	10	23	24	—	11	Other tuberculosis	143	46	25	28	19	16	4	2	3	23	16	12	14	18	9	17	32
45	—	—	—	11	18	10	—	6	—	—	—	29	46	41	—	64	Syphilis, etc.	129	—	2	9	40	45	23	10	—	—	1	4	30	52	51	84	—
5	—	—	—	3	1	1	—	—	—	—	—	8	3	4	—	—	Syphilis	10	—	1	2	3	2	1	1	—	—	1	1	2	2	2	8	—
11	—	—	—	1	3	5	—	2	—	—	—	3	8	20	—	21	Tabes dorsalis	23	—	—	—	2	7	8	6	—	—	—	—	2	8	18	50	—
22	—	—	—	7	10	3	—	2	—	—	—	18	25	12	—	21	General paralysis of insane	77	—	1	7	33	25	9	2	—	—	1	3	25	29	20	17	—
7	—	—	—	—	4	1	—	2	—	—	—	—	10	4	—	21	Aneurysm	19	—	—	—	2	11	5	1	—	—	—	—	2	13	11	8	—
364	—	—	3	9	48	111	58	135	—	—	13	23	122	453	715	1434	Cancer, all sites	640	4	10	27	49	138	196	77	139	2	6	12	37	158	439	644	1464
9	—	—	—	—	1	3	—	5	—	—	—	—	3	12	—	53	Skin	22	—	1	1	1	5	5	1	8	—	1	0	1	6	11	8	84
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip	3	—	—	—	—	1	—	—	2	—	—	—	—	1	—	—	21
12	—	—	—	—	2	5	2	3	—	—	—	—	5	20	25	32	Tongue	27	—	—	—	1	7	12	1	6	—	—	—	1	8	27	8	63
19	—	—	—	—	1	8	6	4	—	—	—	—	3	33	74	42	Œsophagus	57	—	—	—	—	17	23	7	10	—	—	—	—	19	51	59	105
87	—	—	1	3	13	18	19	33	—	—	4	8	33	73	234	350	Stomach	132	—	—	7	14	27	46	15	23	—	—	3	11	31	103	125	242
237	—	—	2	6	31	77	31	90	—	—	8	16	79	314	382	956	Other sites	399	4	9	19	33	81	110	53	90	2	6	8	25	93	246	443	948
14	—	—	—	—	1	3	4	6	—	—	—	—	3	12	49	64	Chronic rheumatism, etc., Gout	22	—	—	2	1	1	3	5	10	—	—	1	1	1	7	42	105
38	—	—	1	2	4	8	9	14	—	—	4	5	10	33	111	149	Diabetes	105	12	10	16	15	14	24	8	6	6	6	7	11	16	54	67	63
4	—	—	—	1	1	1	—	1	—	—	—	3	3	4	—	11	Alcoholism	4	—	—	—	3	1	—	—	—	—	—	—	2	1	—	—	—
256	—	—	2	3	14	52	48	137	—	—	8	8	36	212	591	1455	Cerebral hæmorrhage, etc.	334	1	3	14	16	45	82	46	127	0	2	6	12	52	184	384	1327
83	—	1	4	6	17	19	5	31	—	25	17	16	43	77	62	329	Other dis. of the nervous system	220	24	20	37	31	38	32	12	26	12	13	16	24	44	72	100	274
193	—	—	3	6	26	45	37	76	—	—	13	16	66	184	456	807	Valvular disease of heart	420	27	33	46	51	80	84	35	64	13	21	20	39	92	188	293	674
332	—	—	5	15	34	62	59	157	—	—	21	39	86	253	727	1667	Other heart disease	442	15	17	50	52	52	107	54	95	7	11	22	40	60	240	451	1001
186	—	—	—	2	14	29	32	109	—	—	—	5	36	118	394	1157	Arterio-sclerosis	185	—	—	1	4	19	41	35	85	—	—	0	3	22	92	293	895
18	—	—	—	2	4	4	1	7	—	—	—	5	10	16	12	74	Other dis. of circulatory system	21	2	1	1	3	3	7	—	4	1	1	0	2	3	16	—	42
189	—	—	—	5	7	30	22	125	—	—	—	13	18	122	271	1327	Bronchitis	356	2	3	14	28	51	83	38	137	1	2	6	21	58	186	318	1443
177	1	2	4	26	35	36	17	56	111	50	17	68	89	147	209	595	Pneumonia	436	42	26	69	76	96	56	23	48	21	17	30	58	110	125	192	506
4	—	—	—	—	1	2	—	1	—	—	—	—	3	8	—	11	Chronic interstitial pneumonia	7	—	—	—	2	2	2	—	1	—	—	—	2	2	4	—	11
50	—	—	3	1	12	10	8	16	—	—	13	3	30	41	99	170	Other dis. of respiratory system	70	5	1	7	14	8	13	12	10	2	1	3	11	9	29	100	105
12	—	—	1	1	4	4	—	2	—	—	4	3	10	16	—	21	Ulcer of stomach	41	1	3	6	14	11	4	—	2	0	2	3	11	13	9	—	21
8	—	—	—	2	2	1	2	1	—	—	—	5	5	4	25	11	Ulcer of duodenum	22	1	2	3	4	6	4	2	—	0	1	1	3	7	9	17	—
21	—	1	1	4	2	4	2	7	—	25	4	10	5	16	25	74	Appendicitis	66	18	17	20	3	6	2	—	—	9	11	9	2	7	4	—	—
11	—	—	—	—	2	1	1	7	—	—	—	—	5	4	12	74	Hernia	22	1	2	2	4	5	3	3	2	0	1	1	3	6	7	25	21
20	1	—	—	—	3	4	6	6	111	—	—	—	8	16	74	64	Intestinal obstruction	31	6	4	6	4	1	1	2	7	3	3	3	3	1	2	17	74
39	—	—	—	5	11	14	5	4	—	—	—	13	28	57	62	42	Cirrhosis of liver	53	—	—	1	6	14	19	7	6	—	—	0	5	16	43	59	63
89	—	—	3	5	10	20	10	41	—	—	13	13	25	82	123	435	Other dis. of digestive system	92	7	7	8	13	16	18	5	18	3	5	4	10	18	40	42	190
5	—	—	1	1	1	1	—	1	—	—	4	3	3	4	—	11	Acute nephritis	27	4	7	2	3	5	4	1	1	2	5	1	2	6	9	8	11
141	—	—	—	5	21	40	27	48	—	—	—	13	53	163	333	510	Chronic nephritis	189	11	10	15	20	31	52	17	33	5	6	7	15	36	116	142	348
66	—	—	—	—	1	8	8	49	—	—	—	—	3	33	99	520	Diseases of the prostate	47	—	—	—	—	2	8	12	25	—	—	—	—	2	18	100	263
32	—	—	—	1	1	5	4	21	—	—	—	3	3	20	49	223	Other genito-urinary diseases	68	—	1	6	7	18	10	4	22	—	1	3	5	21	22	33	232
191	—	—	—	—	—	2	1	188	—	—	—	—	—	8	12	1996	Old age	193	—	—	—	—	—	5	18	170	—	—	—	—	—	11	150	1790
56	—	—	4	12	24	12	1	3	—	—	17	31	61	49	12	32	Suicide	128	10	11	14	28	31	20	5	9	5	7	6	21	36	45	42	95
60	1	1	3	11	10	12	6	16	111	25	13	29	25	49	74	170	Accident	208	40	31	46	26	23	22	5	15	20	20	20	20	26	49	42	158
115	—	3	7	15	15	32	18	25	—	—	—	—	—	—	—	—	Other causes	307	57	28	58	51	37	44	10	22	—	—	—	—	—	—	—	—
3,113	5	13	84	224	407	634	409	1,337	556	322	352	585	1033	2586	5040	14198	All causes	6,404	504	509	834	864	1,008	1,091	483	1,111	250	329	366	658	1156	2443	4037	11701
148,533	900	4,035	23,836	38,304	39,405	24,519	8,115	9,417									Years of life (Census population × 3)	868,662	201,684	154,782	227,628	131,229	87,219	44,661	11,964	9,495								
—	225	91	88	92	89	101	101	105									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	101	93	92	103	100	95	81	86								

Occupational Group 123c:

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 941
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 95

Occupational Group 124:

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 973
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 97

OCCUPATIONAL GROUP 124a.—SALESMEN AND SHOP ASSISTANTS IN BUSINESSES FOR THE SALE OF FISH, MEAT, GREENGROCERY AND MILK (Occ. 775. Ind. 612–9).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	63	7	4	6	14	12	14	3	3	13	11	11	38	45	111	93	127
Respiratory tuberculosis	322	42	55	73	73	49	24	2	4	77	146	129	196	185	190	62	169
Other tuberculosis	45	19	4	7	5	4	2	2	2	35	11	12	13	15	16	62	84
Syphilis, etc.	45	—	—	2	10	20	11	2	—	—	—	4	27	76	87	62	—
Syphilis	3	—	—	—	1	1	1	—	—	—	—	—	3	4	8	—	—
Tabes dorsalis	9	—	—	—	—	5	3	1	—	—	—	—	—	19	24	31	—
General paralysis of insane	26	—	—	2	8	10	5	1	—	—	—	4	21	38	40	31	—
Aneurysm	7	—	—	—	1	4	2	—	—	—	—	—	3	15	16	—	—
Cancer, all sites	235	1	5	11	19	50	76	29	44	2	13	19	51	189	603	902	1859
Skin	13	—	—	—	1	2	3	1	6	—	—	—	3	8	24	31	253
Lip	2	—	—	—	—	1	—	—	1	—	—	—	—	4	—	—	42
Tongue	14	—	—	—	—	5	4	1	4	—	—	—	—	19	32	31	169
Œsophagus	20	—	—	—	—	6	7	2	5	—	—	—	—	23	56	62	211
Stomach	53	—	—	2	4	11	21	7	8	—	—	4	11	42	167	218	338
Other sites	133	1	5	9	14	25	41	18	20	2	13	16	38	94	325	560	845
Chronic rheumatism, etc., Gout	8	—	—	1	—	—	—	2	5	—	—	2	—	—	—	62	211
Diabetes	38	3	6	4	2	4	13	4	2	6	16	7	5	15	103	124	84
Alcoholism	1	—	—	—	1	—	—	—	—	—	—	—	3	—	—	—	—
Cerebral hæmorrhage, etc.	139	—	—	6	9	22	32	20	50	—	—	11	24	83	254	622	2112
Other dis. of the nervous system	69	6	6	14	11	13	9	3	7	11	16	25	30	49	71	93	296
Valvular disease of heart	150	7	8	17	17	32	33	16	20	13	21	30	46	121	262	498	845
Other heart disease	183	5	6	16	18	21	53	22	42	9	16	28	48	79	420	684	1774
Arterio-sclerosis	71	—	—	—	4	9	13	14	31	—	—	—	11	34	103	435	1310
Other dis. of circulatory system	8	1	—	—	2	1	4	—	—	2	—	—	5	4	32	—	—
Bronchitis	160	—	—	3	16	28	41	13	59	—	—	5	43	106	325	404	2493
Pneumonia	168	13	10	25	32	38	26	9	15	24	27	44	86	144	206	280	634
Chronic interstitial pneumonia	3	—	—	—	2	1	—	—	—	—	—	—	5	4	—	—	—
Other dis. of respiratory system	24	3	—	1	4	3	5	3	5	6	—	2	11	11	40	93	211
Ulcer of stomach	17	—	2	3	8	2	2	—	—	—	5	5	21	8	16	—	—
Ulcer of duodenum	5	—	—	2	—	2	—	1	—	—	—	4	—	8	—	31	—
Appendicitis	22	6	8	5	1	1	1	—	—	11	21	9	3	4	8	—	—
Hernia	8	1	1	—	1	—	2	2	1	2	3	—	3	—	16	62	42
Intestinal obstruction	13	1	1	4	1	—	—	2	4	2	3	7	3	—	—	62	169
Cirrhosis of liver	21	—	—	—	1	4	9	4	3	—	—	—	3	15	71	124	127
Other dis. of digestive system	34	2	3	5	4	7	6	1	6	4	8	9	11	26	48	31	253
Acute nephritis	12	1	2	1	1	4	1	1	1	2	5	2	3	15	8	31	42
Chronic nephritis	80	2	3	5	7	16	24	7	16	4	8	9	19	60	190	218	676
Diseases of the prostate	17	—	—	—	—	—	4	6	7	—	—	—	—	—	32	187	296
Other genito-urinary diseases	30	—	—	2	2	13	3	2	8	—	—	4	5	49	24	62	338
Old age	69	—	—	—	—	—	1	7	61	—	—	—	—	—	8	218	2577
Suicide	44	3	3	5	10	12	6	—	5	6	8	9	27	45	48	—	211
Accident	67	11	9	16	9	9	6	1	6	20	24	28	24	34	48	31	253
Other causes	110	20	7	16	18	16	20	5	8	—	—	—	—	—	—	—	—
All causes	2,281	154	143	250	302	393	441	183	415	283	381	442	810	1485	3498	5690	17533
Years of life (Census population × 3)	230,481	54,459	37,551	56,532	37,284	26,466	12,606	3,216	2,367								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	115	108	111	127	128	136	114	129								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,280
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	125

OCCUPATIONAL GROUP 124b.—SALESMEN AND SHOP ASSISTANTS IN BUSINESSES FOR THE SALE OF GROCERY AND PROVISIONS (Occ. 775. Ind. 609 611).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	45	10	3	10	6	7	3	1	5	19	7	18	23	46	37	46	269
Respiratory tuberculosis	297	30	65	94	59	26	20	3	—	56	156	167	230	170	248	139	—
Other tuberculosis	38	14	4	11	7	1	1	—	—	26	10	20	27	7	12	—	—
Syphilis, etc.	19	—	—	3	6	7	1	2	—	—	—	5	23	46	12	92	—
Syphilis	1	—	—	1	—	—	—	—	—	—	—	2	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	46	—
General paralysis of insane	12	—	—	2	6	4	—	—	—	—	—	4	23	26	—	—	—
Aneurysm	5	—	—	—	—	3	1	1	—	—	—	—	—	20	12	46	—
Cancer, all sites	101	—	2	4	8	18	29	16	24	—	5	7	31	118	360	740	1292
Skin	3	—	1	—	—	—	—	—	2	—	2	—	—	—	—	—	108
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	3	—	—	—	—	1	2	—	—	—	—	—	—	7	25	—	—
Œsophagus	12	—	—	—	—	3	6	2	1	—	—	—	—	20	74	92	54
Stomach	20	—	—	—	3	3	8	3	3	—	—	—	12	20	99	139	162
Other sites	63	—	1	4	5	11	13	11	18	—	2	7	19	72	161	509	969
Chronic rheumatism, etc., Gout	5	—	—	—	1	—	2	—	2	—	—	—	4	—	25	—	108
Diabetes	25	2	1	6	4	4	5	1	2	4	2	11	16	26	62	46	108
Alcoholism	1	—	—	—	1	—	—	—	—	—	—	—	4	—	—	—	—
Cerebral hæmorrhage, etc.	62	1	—	4	4	9	16	5	23	2	—	7	16	59	198	231	1239
Other dis. of the nervous system	42	8	9	5	7	4	6	2	1	15	22	9	27	26	74	92	54
Valvular disease of heart	90	10	13	19	11	13	10	3	11	19	31	34	43	85	124	139	592
Other heart disease	75	5	1	17	11	9	12	9	11	9	2	30	43	59	149	416	592
Arterio-sclerosis	30	—	—	—	—	2	8	6	14	—	—	—	—	13	99	277	754
Other dis. of circulatory system	7	1	1	1	—	1	1	—	2	2	2	2	—	7	12	—	108
Bronchitis	48	2	2	4	2	7	11	5	15	4	5	7	8	46	136	231	808
Pneumonia	94	11	4	17	15	12	15	4	16	21	10	30	58	79	186	185	862
Chronic interstitial pneumonia	1	—	—	—	—	1	—	—	—	—	—	—	—	7	—	—	—
Other dis. of respiratory system	10	1	—	2	2	—	2	3	—	2	—	4	8	—	25	139	—
Ulcer of stomach	10	1	—	1	1	4	2	—	1	2	—	2	4	26	25	—	54
Ulcer of duodenum	8		1	1	2	2	1	—	—	2	2	2	8	13	12	—	—
Appendicitis	13	5	5	2	—	1	—	—	—	9	12	4	—	7	—	—	—
Hernia	3	—	—	—	1	2	—	—	—	—	—	—	4	13	—	—	—
Intestinal obstruction	3	1	—	1	1	—	—	—	—	2	—	2	4	—	—	—	—
Cirrhosis of liver	10	—	—	—	4	2	3	1	—	—	—	—	16	13	37	46	—
Other dis. of digestive system	14	3	1	—	2	1	2	—	5	6	2	—	8	7	25	—	269
Acute nephritis	7	2	3	1	1	—	—	—	—	4	7	2	4	—	—	—	—
Chronic nephritis	33	3	3	3	6	3	8	3	4	6	7	5	23	20	99	139	215
Diseases of the prostate	6	—	—	—	—	1	1	1	3	—	—	—	—	7	12	46	162
Other genito-urinary diseases	10	—	—	2	1	2	2	1	2	—	—	4	4	13	25	46	108
Old age	35	—	—	—	—	—	1	4	30	—	—	—	—	—	12	185	1616
Suicide	26	2	3	1	4	8	4	4	—	4	7	2	16	52	50	185	—
Accident	42	10	7	9	8	1	4	—	3	19	17	16	31	7	50	—	162
Other causes	63	11	7	16	13	7	5	—	4	—	—	—	—	—	—	—	—
All causes	1,273	134	135	234	188	155	175	74	178	252	324	416	731	1016	2170	3421	9585
Years of life (Census population × 3)	204,069	53,115	41,664	56,250	25,701	15,255	8,064	2,163	1,857								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	102	92	104	114	88	84	69	71								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	932
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	97

OCCUPATIONAL GROUP 124c.—SALESMEN AND SHOP ASSISTANTS IN BUSINESSES FOR THE SALE OF TEXTILES AND CLOTHING (Occ. 775. Ind. 635-6).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	27	2	1	3	7	2	5	3	4	10	5	10	41	17	76	159	292
Respiratory tuberculosis	197	27	38	49	39	30	7	5	2	130	190	155	226	258	106	265	146
Other tuberculosis	22	3	5	3	3	6	1	—	1	14	25	10	17	52	15	—	73
Syphilis, etc.	14	—	1	—	5	2	5	1	—	—	5	—	29	17	76	53	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	2	—	—	—	—	—	2	—	—	—	—	—	—	—	30	—	—
General paralysis of insane	10	—	1	—	5	1	2	1	—	—	5	—	29	9	30	53	—
Aneurysm	2	—	—	—	—	1	1	—	—	—	—	—	—	9	15	—	—
Cancer, all sites	116	—	—	4	11	27	38	9	27	—	—	13	64	232	575	477	1969
Skin	3	—	—	1	—	—	2	—	—	—	—	3	—	—	30	—	—
Lip	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	73
Tongue	8	—	—	—	1	1	5	—	1	—	—	—	6	9	76	—	73
Œsophagus	7	—	—	—	—	1	2	1	3	—	—	—	—	9	30	53	219
Stomach	24	—	—	2	3	8	5	1	5	—	—	6	17	69	76	53	365
Other sites	73	—	—	1	7	17	24	7	17	—	—	3	41	146	363	371	1240
Chronic rheumatism, etc., Gout	4	—	—	—	—	1	1	1	1	—	—	—	—	9	15	53	73
Diabetes	14	2	1	3	2	1	3	1	1	10	5	10	12	9	45	53	73
Alcoholism	1	—	—	—	1	—	—	—	—	—	—	—	6	—	—	—	—
Cerebral hæmorrhage, etc.	44	—	—	2	2	4	12	5	19	—	—	6	12	34	182	265	1386
Other dis. of the nervous system	40	1	4	8	5	9	5	1	7	5	20	25	29	77	76	53	511
Valvular disease of heart	61	2	4	5	8	10	14	4	14	10	20	16	46	86	212	212	1021
Other heart disease	66	—	4	6	8	7	17	5	19	—	20	19	46	60	257	265	1386
Arterio-sclerosis	30	—	—	1	—	4	6	4	15	—	—	3	—	34	91	212	1094
Other dis. of circulatory system	2	—	—	—	—	—	1	—	1	—	—	—	—	—	15	—	73
Bronchitis	56	—	—	—	4	7	15	7	23	—	—	—	23	60	227	371	1678
Pneumonia	50	5	3	9	7	17	3	3	3	24	15	29	41	146	45	159	219
Chronic interstitial pneumonia	2	—	—	—	—	—	2	—	—	—	—	—	—	—	30	—	—
Other dis. of respiratory system	12	—	—	3	2	1	2	2	2	—	—	10	12	9	30	106	146
Ulcer of stomach	5	—	—	2	2	1	—	—	—	—	—	6	12	9	—	—	—
Ulcer of duodenum	3	—	—	—	—	1	2	—	—	—	—	—	—	9	30	—	—
Appendicitis	7	1	—	4	—	1	1	—	—	5	—	13	—	9	15	—	—
Hernia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	53	—
Intestinal obstruction	2	—	1	—	—	—	—	—	1	—	5	—	—	—	—	—	73
Cirrhosis of liver	6	—	—	—	—	3	1	1	1	—	—	—	—	26	15	53	73
Other dis. of digestive system	17	2	2	—	2	3	3	1	4	10	10	—	12	26	45	53	292
Acute nephritis	3	—	1	—	—	—	2	—	—	—	5	—	—	—	30	—	—
Chronic nephritis	25	1	2	2	3	1	8	2	6	5	10	6	17	9	121	106	438
Diseases of the prostate	11	—	—	—	—	—	1	3	7	—	—	—	—	—	15	159	511
Other genito-urinary diseases	14	—	—	1	1	2	1	1	8	—	—	3	6	17	15	53	584
Old age	26	—	—	—	—	—	—	5	21	—	—	—	—	—	—	265	1532
Suicide	18	1	—	4	4	3	4	—	2	5	—	13	23	26	61	—	146
Accident	36	4	5	7	3	5	6	2	4	19	25	22	17	43	91	106	292
Other causes	45	9	3	10	7	4	6	2	4	—	—	—	—	—	—	—	—
All causes	977	60	75	126	126	152	172	69	197	288	374	400	729	1307	2604	3657	14369
Years of life (Census population × 3)	111,138	20,823	20,028	31,512	17,280	11,631	6,606	1,887	1,371								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	117	106	100	114	113	101	73	106								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,069
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 107

OCCUPATIONAL GROUP 125.—COMMERCIAL TRAVELLERS (773).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	102	—	6	11	14	19	17	9	26	—	31	18	22	35	56	111	341
Respiratory tuberculosis	373	2	26	88	107	92	39	10	9	43	135	140	169	168	129	123	118
Other tuberculosis	23	—	—	8	6	3	4	2	—	—	—	13	9	5	13	25	—
Syphilis, etc.	115	—	—	2	23	52	23	9	6	—	—	3	36	95	76	111	79
Syphilis	11	—	—	1	3	4	2	—	1	—	—	2	5	7	7	—	13
Tabes dorsalis	31	—	—	—	1	12	8	5	5	—	—	—	2	22	26	62	66
General paralysis of insane	56	—	—	1	19	28	7	1	—	—	—	2	30	51	23	12	—
Aneurysm	17	—	—	—	—	8	6	3	—	—	—	—	—	15	20	37	—
Cancer, all sites	559	—	6	11	22	105	187	83	145	—	31	18	35	192	619	1025	1904
Skin	11	—	—	—	—	3	2	1	5	—	—	—	—	5	7	12	66
Lip	2	—	—	—	—	—	2	—	—	—	—	—	—	—	7	—	—
Tongue	27	—	—	—	—	6	10	3	8	—	—	—	—	11	33	37	105
Œsophagus	63	—	—	—	1	15	27	8	12	—	—	—	2	27	89	99	158
Stomach	92	—	1	3	6	12	30	17	23	—	5	5	9	22	99	210	302
Other sites	364	—	5	8	15	69	116	54	97	—	26	13	24	126	384	667	1274
Chronic rheumatism, etc., Gout	15	—	—	—	2	2	—	5	6	—	—	—	3	4	—	62	79
Diabetes	63	—	2	7	7	9	16	10	12	—	10	11	11	16	53	123	158
Alcoholism	4	—	—	—	2	1	1	—	—	—	—	—	3	2	3	—	—
Cerebral hæmorrhage, etc.	284	—	—	4	7	33	62	57	121	—	—	6	11	60	205	704	1589
Other dis. of the nervous system	97	—	5	7	11	17	26	10	21	—	26	11	17	31	86	123	276
Valvular disease of heart	267	—	3	14	21	42	73	37	77	—	16	22	33	77	241	457	1011
Other heart disease	372	—	3	15	21	40	92	56	145	—	16	24	33	73	304	691	1904
Arterio-sclerosis	197	—	—	—	3	12	46	29	107	—	—	—	5	22	152	358	1405
Other dis. of circulatory system	12	—	—	—	3	3	2	3	1	—	—	—	5	5	7	37	13
Bronchitis	190	—	—	2	5	21	35	28	99	—	—	3	8	38	116	346	1300
Pneumonia	247	1	7	26	37	57	53	29	37	21	36	41	58	104	175	358	486
Chronic interstitial pneumonia	1	—	—	—	—	1	—	—	—	—	—	—	—	2	—	—	—
Other dis. of respiratory system	52	—	1	—	8	12	14	3	14	—	5	—	13	22	46	37	184
Ulcer of stomach	23	—	—	3	5	3	7	3	2	—	—	5	8	5	23	37	26
Ulcer of duodenum	18	—	—	—	3	8	2	3	2	—	—	—	5	15	7	37	26
Appendicitis	45	—	3	12	6	8	8	4	4	—	16	19	9	15	26	49	53
Hernia	17	—	—	1	1	3	4	—	8	—	—	2	2	5	13	—	105
Intestinal obstruction	19	—	—	2	1	7	2	1	6	—	—	3	2	13	7	12	79
Cirrhosis of liver	61	—	—	—	3	19	22	11	6	—	—	—	5	35	73	136	79
Other dis. of digestive system	83	—	—	4	11	14	18	11	25	—	—	6	17	26	60	136	328
Acute nephritis	14	—	1	2	2	4	3	1	1	—	5	3	3	7	10	12	13
Chronic nephritis	147	—	—	2	12	27	46	20	40	—	—	3	19	49	152	247	525
Diseases of the prostate	72	—	—	—	1	2	10	22	37	—	—	—	2	4	33	272	486
Other genito-urinary diseases	57	—	—	—	4	10	12	11	20	—	—	—	6	18	40	136	263
Old age	165	—	—	—	—	—	4	7	154	—	—	—	—	—	13	86	2022
Suicide	90	—	5	8	19	33	14	7	4	—	26	13	30	60	46	86	53
Accident	133	1	8	17	25	32	20	9	21	21	41	27	40	59	66	111	276
Other causes	136	1	—	7	16	33	33	17	29	—	—	—	—	—	—	—	—
All causes	4,053	5	76	253	408	724	895	507	1,185	108	394	403	645	1326	2961	6259	15557
Years of life (Census population × 3)	250,497	4,644	19,308	62,736	63,261	54,603	30,228	8,100	7,617								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	44	112	101	101	115	115	125	115								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,108
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 111

OCCUPATIONAL GROUP 126.—CANVASSERS, ROUNDSMEN, AND VAN SALESMEN (774, 776).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 127.—COSTERMONGERS, HAWKERS, AND STREET SELLERS (777, 778).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
28	2	3	5	7	3	5	1	2	10	19	19	35	23	84	68	206	Influenza	72	2	—	8	9	13	17	6	17	13	—	28	29	46	86	71	230
144	17	19	48	31	15	9	2	3	84	121	184	155	115	151	137	310	Respiratory tuberculosis ..	474	18	22	74	133	126	67	21	13	120	186	264	425	442	341	249	176
11	4	2	2	2	—	—	—	1	20	13	8	10	—	—	—	103	Other tuberculosis	35	9	6	5	5	4	2	1	3	60	51	18	16	14	10	12	41
18	—	—	1	5	6	4	—	2	—	—	4	25	46	67	—	206	Syphilis, etc.	84	—	—	5	22	27	20	6	4	—	—	18	70	95	102	71	54
3	—	—	—	2	1	—	—	—	—	—	—	10	8	—	—	—	Syphilis	10	—	—	3	1	2	4	—	—	—	—	11	3	7	20	—	—
5	—	—	—	—	3	1	—	1	—	—	—	—	23	17	—	103	Tabes dorsalis	18	—	—	—	2	7	5	3	1	—	—	—	6	25	25	36	14
5	—	—	—	3	1	1	—	—	—	—	—	15	8	17	—	—	General paralysis of insane	32	—	—	2	15	12	3	—	—	—	—	7	48	42	15	—	—
5	—	—	1	—	1	2	—	1	—	—	4	—	8	34	—	103	Aneurysm	24	—	—	—	4	6	8	3	3	—	—	—	13	21	41	36	41
85	1	4	2	11	27	20	7	13	5	25	8	55	206	337	478	1342	Cancer, all sites	363	—	1	5	13	70	104	88	82	—	8	18	42	245	529	1042	111
2	—	—	—	—	1	1	—	—	—	—	—	—	8	17	—	—	Skin	10	—	—	—	—	—	3	1	6	—	—	—	—	—	15	12	81
2	—	—	—	—	1	—	—	1	—	—	—	—	8	—	—	103	Lip	7	—	—	—	—	2	1	1	3	—	—	—	—	7	5	12	41
1	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—	—	Tongue	32	—	—	—	—	9	9	6	8	—	—	—	—	32	46	71	108
10	—	—	—	—	6	3	1	—	—	—	—	—	46	50	68	—	Œsophagus	26	—	—	—	—	6	7	9	4	—	—	—	—	21	36	107	54
25	—	—	—	7	5	3	4	6	—	—	—	35	38	50	273	619	Stomach	81	—	—	1	4	20	23	18	15	—	—	4	13	70	117	213	203
45	1	4	2	4	13	13	2	6	5	25	8	20	99	219	137	619	Other sites	207	—	1	4	9	33	61	53	46	—	8	14	29	116	310	627	623
2	—	—	1	—	1	—	—	—	—	—	4	—	8	—	—	—	Chronic rheumatism, etc., Gout	10	—	—	—	1	1	4	—	4	—	—	—	3	4	20	—	54
2	1	—	—	—	1	—	—	—	5	—	—	—	8	—	—	—	Diabetes	23	1	—	1	2	4	7	2	6	7	—	4	6	14	36	24	81
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	4	—	—	—	2	1	1	—	—	—	—	—	6	4	5	—	—
30	1	—	—	3	5	7	5	9	5	—	—	15	38	118	342	929	Cerebral hæmorrhage, etc. ..	162	—	—	1	4	12	41	36	68	—	—	4	13	42	209	426	921
21	3	4	2	4	3	4	1	—	15	25	8	20	23	67	68	—	Other dis. of the nervous system	89	4	—	11	12	22	13	12	15	27	—	39	38	77	66	142	203
53	5	4	9	9	8	11	3	4	25	25	35	45	61	185	205	413	Valvular disease of heart ..	179	5	7	15	17	29	39	33	34	33	59	53	54	102	198	391	461
59	2	4	5	6	10	12	7	13	10	25	19	30	76	202	478	1342	Other heart disease	313	1	1	5	28	41	58	52	127	7	8	18	89	144	295	616	1720
12	—	—	1	—	2	2	3	4	—	—	4	—	15	34	205	413	Arterio-sclerosis	165	—	—	—	3	11	26	27	98	—	—	—	10	39	132	320	1327
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Other dis. of circulatory system	4	—	1	—	—	1	1	—	1	—	8	—	—	4	5	—	14
44	—	2	2	2	4	12	6	16	—	13	8	10	31	202	410	1651	Bronchitis..	415	—	—	4	17	50	96	69	179	—	—	14	54	175	488	817	2424
56	2	3	9	11	11	10	6	4	10	19	35	55	84	168	410	413	Pneumonia	297	8	5	22	51	62	58	37	54	53	42	78	163	217	295	438	731
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia	1	—	—	—	—	1	—	—	—	—	—	—	—	4	—	—	—
15	—	—	4	4	3	1	1	2	—	—	15	20	23	17	68	206	Other dis. of respiratory system	57	—	—	5	8	10	11	8	15	—	—	18	26	35	56	95	203
10	—	1	1	2	3	—	2	1	—	6	4	10	23	—	137	103	Ulcer of stomach	20	—	1	1	7	6	3	1	1	—	8	4	22	21	15	12	14
4	2	—	1	1	—	—	—	—	10	—	4	5	—	—	—	—	Ulcer of duodenum	6	—	1	—	1	1	1	1	1	—	8	—	3	4	5	12	14
3	2	—	1	—	—	—	—	—	10	—	4	—	—	—	—	—	Appendicitis	10	1	—	2	1	3	—	2	1	7	—	7	3	11	—	24	14
3	—	1	1	—	1	—	—	—	—	6	4	—	8	—	—	—	Hernia	7	—	—	—	1	1	3	—	2	—	—	—	3	4	15	—	27
3	1	1	1	—	—	—	—	—	5	6	4	—	—	—	—	—	Intestinal obstruction	13	—	1	4	2	2	1	—	3	—	8	14	6	7	5	—	41
4	—	—	1	1	—	2	—	—	—	—	4	5	—	34	—	—	Cirrhosis of liver	22	—	—	—	2	5	12	1	2	—	—	—	6	18	61	12	27
4	1	—	1	—	1	1	—	—	5	—	4	—	8	17	—	—	Other dis. of digestive system ..	44	1	1	—	6	10	10	5	11	7	8	—	19	35	51	59	149
3	—	—	1	—	2	—	—	—	—	—	4	—	15	—	—	—	Acute nephritis	12	1	—	3	1	2	—	4	1	7	—	11	3	7	—	47	14
22	—	—	1	6	6	4	3	2	—	—	4	30	46	67	205	206	Chronic nephritis..	118	2	1	2	12	14	35	22	30	13	8	7	38	49	178	260	406
4	—	—	—	—	—	—	2	2	—	—	—	—	—	—	137	206	Diseases of the prostate ..	28	—	—	—	1	1	4	5	17	—	—	—	3	4	20	59	230
11	—	1	1	1	1	4	2	1	—	6	4	5	8	67	137	103	Other genito-urinary diseases ..	45	—	1	1	7	6	11	6	13	—	8	4	22	21	56	71	176
20	—	—	—	—	—	—	3	17	—	—	—	—	—	—	205	1754	Old age	219	—	—	—	—	—	11	28	180	—	—	—	—	—	56	331	2438
16	—	2	2	2	8	1	1	—	—	13	8	10	61	17	68	—	Suicide	49	—	—	3	11	17	6	4	8	—	—	11	35	60	31	47	108
35	5	3	5	8	4	6	—	4	25	19	19	40	31	101	—	413	Accident	124	6	5	9	17	23	26	13	25	40	42	32	54	81	132	154	339
33	5	6	6	7	2	3	—	4	—	—	—	—	—	—	—	—	Other causes	117	8	4	7	8	18	29	18	25	—	—	—	—	—	—	—	—
755	54	60	114	123	127	118	55	104	267	382	438	616	970	1986	3757	10733	All causes	3,581	67	58	193	404	594	717	508	1,040	448	490	687	1291	2081	3647	6013	14086
103,380	20,199	15,720	26,031	19,959	13,095	5,943	1,464	969									Years of life (Census population × 3)	150,201	14,961	11,832	28,074	31,302	28,539	19,662	8,448	7,383								
—	108	109	110	96	84	77	75	79									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	181	139	172	202	180	142	120	104								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 877
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 92

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,660
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 165

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

OCCUPATIONAL GROUP 128.—BANK OFFICIALS (791).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	22	—	—	—	2	4	6	3	7	—	—	—	24	40	88	132	246
Respiratory tuberculosis	21	—	—	—	9	3	5	3	1	—	—	—	107	30	73	132	35
Other tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis, etc.	2	—	—	—	1	1	—	—	—	—	—	—	12	10	—	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	2	—	—	—	1	1	—	—	—	—	—	—	12	10	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	87	—	—	—	2	12	18	18	37	—	—	—	24	119	265	795	1300
Skin	1	—	—	—	—	—	1	—	—	—	—	—	—	—	15	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	6	—	—	—	—	—	—	3	3	—	—	—	—	—	—	132	105
Œsophagus	5	—	—	—	—	—	2	3	—	—	—	—	—	—	29	132	—
Stomach	13	—	—	—	—	2	3	2	6	—	—	—	—	20	44	88	211
Other sites	62	—	—	—	2	10	12	10	28	—	—	—	24	100	176	442	983
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	70
Diabetes	12	—	—	—	—	—	2	4	6	—	—	—	—	—	29	177	211
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	59	—	—	—	—	2	15	8	34	—	—	—	—	20	220	353	1194
Other dis. of the nervous system	22	—	—	—	2	1	4	8	7	—	—	—	24	10	59	353	246
Valvular disease of heart	32	—	—	—	1	1	7	3	20	—	—	—	12	10	103	132	702
Other heart disease	78	—	—	1	4	4	15	15	39	—	—	33	48	40	220	662	1370
Arterio-sclerosis	56	—	—	—	—	3	4	8	41	—	—	—	—	30	59	353	1440
Other dis. of circulatory system	4	—	—	—	—	1	—	1	2	—	—	—	—	10	—	44	70
Bronchitis	19	—	—	—	—	1	3	3	12	—	—	—	—	10	44	132	421
Pneumonia	50	—	—	1	5	7	8	4	25	—	—	33	59	70	118	177	878
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	6	—	—	—	—	1	2	1	2	—	—	—	—	10	29	44	70
Ulcer of stomach	2	—	—	—	—	—	2	—	—	—	—	—	—	—	29	—	—
Ulcer of duodenum	6	—	—	1	—	1	2	1	1	—	—	33	—	10	29	44	35
Appendicitis	10	—	—	—	3	4	2	—	1	—	—	—	36	40	29	—	35
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	6	—	—	—	1	—	—	1	4	—	—	—	12	—	—	44	140
Cirrhosis of liver	8	—	—	—	1	2	3	1	1	—	—	—	12	20	44	44	35
Other dis. of digestive system	18	—	—	—	1	1	5	3	8	—	—	—	12	10	73	132	281
Acute nephritis	3	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	105
Chronic nephritis	33	—	—	—	—	7	7	6	13	—	—	—	—	70	103	265	457
Diseases of the prostate	15	—	—	—	—	—	2	—	13	—	—	—	—	—	29	—	457
Other genito-urinary diseases	6	—	—	—	—	2	1	—	3	—	—	—	—	20	15	—	105
Old age	33	—	—	—	—	—	—	—	33	—	—	—	—	—	—	—	1159
Suicide	5	—	—	—	—	4	—	—	1	—	—	—	—	40	—	—	35
Accident	13	—	—	1	3	1	2	1	5	—	—	33	36	10	29	44	176
Other causes	34	—	—	—	5	5	10	6	8	—	—	—	—	—	—	—	—
All causes	664	—	—	4	40	68	125	98	329	—	—	133	475	677	1837	4327	11556
Years of life (Census population × 3)	33,969	96	492	2,997	8,418	10,050	6,804	2,265	2,847								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	—	33	74	59	71	87	85								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	603
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	66

OCCUPATIONAL GROUP 129.—INSURANCE OFFICIALS (793).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up
Influenza	26	—	—	2	1	7	8	2	6	—	—	18	6	44	105	109	368
Respiratory tuberculosis	35	—	—	7	10	10	5	2	1	—	—	64	57	63	66	109	61
Other tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis, etc.	9	—	—	—	2	5	1	—	1	—	—	—	11	31	13	—	61
Syphilis	1	—	—	—	—	1	—	—	—	—	—	—	—	6	—	—	—
Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	13	—	—
General paralysis of insane	3	—	—	—	2	1	—	—	—	—	—	—	11	6	—	—	—
Aneurysm	4	—	—	—	—	3	—	—	1	—	—	—	—	19	—	—	61
Cancer, all sites	72	—	—	4	3	14	22	8	21	—	—	36	17	88	290	436	1290
Skin	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	54	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	1	—	—	—	—	—	—	—	6	—	—	—
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	21	—	—	2	2	3	8	1	5	—	—	18	11	19	105	54	307
Other sites	49	—	—	2	1	10	14	6	16	—	—	18	6	63	184	327	983
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	123
Diabetes	14	—	—	3	1	3	3	1	3	—	—	27	6	19	40	54	184
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	46	—	—	—	1	4	13	6	22	—	—	—	6	25	171	327	1351
Other dis. of the nervous system	9	—	—	—	2	1	4	—	2	—	—	—	11	6	53	—	123
Valvular disease of heart	28	—	—	—	1	2	5	6	14	—	—	—	6	13	66	327	859
Other heart disease	53	—	—	1	3	11	13	8	17	—	—	9	17	69	171	436	1044
Arterio-sclerosis	37	—	—	—	—	7	9	8	13	—	—	—	—	44	119	436	798
Other dis. of circulatory system	4	—	—	1	1	—	—	1	1	—	—	9	6	—	—	54	61
Bronchitis	24	—	—	1	2	1	2	4	14	—	—	9	11	6	26	218	859
Pneumonia	34	—	—	—	7	13	8	—	6	—	—	—	40	82	105	—	368
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	8	—	—	—	—	1	4	2	1	—	—	—	—	6	53	109	61
Ulcer of stomach	3	—	—	—	—	1	1	—	1	—	—	—	—	6	13	—	61
Ulcer of duodenum	3	—	—	—	—	2	1	—	—	—	—	—	—	13	13	—	—
Appendicitis	10	—	—	—	2	4	3	—	1	—	—	—	11	25	40	—	61
Hernia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	54	—
Intestinal obstruction	5	—	—	—	—	1	2	—	2	—	—	—	—	6	26	—	123
Cirrhosis of liver	4	—	—	—	1	1	1	1	—	—	—	—	6	6	13	54	—
Other dis. of digestive system	19	—	—	—	4	5	4	2	4	—	—	—	23	31	53	109	246
Acute nephritis	2	—	—	—	—	1	1	—	—	—	—	—	—	6	13	—	—
Chronic nephritis	28	—	—	—	1	5	8	5	9	—	—	—	6	31	105	272	552
Diseases of the prostate	10	—	—	—	—	2	—	2	6	—	—	—	—	13	—	109	368
Other genito-urinary diseases	9	—	—	—	1	—	3	1	4	—	—	—	6	—	40	54	246
Old age	12	—	—	—	—	—	—	—	12	—	—	—	—	—	—	—	737
Suicide	9	—	—	1	3	2	1	1	1	—	—	9	17	13	13	54	61
Accident	15	—	1	1	3	6	—	2	2	—	48	9	17	38	—	109	123
Other causes	33	—	—	2	7	9	7	4	4	—	—	—	—	—	—	—	—
All causes	564	—	1	23	56	118	129	67	170	—	48	209	321	743	1699	3649	10436
Years of life (Census population × 3)	57,786	297	2,073	11,016	17,466	15,876	7,593	1,836	1,629								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	14	52	50	64	66	73	77								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	585
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	60

OCCUPATIONAL GROUP 130.—INSURANCE AGENTS AND CANVASSERS (794, 795).

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	
79	—	1	8	15	17	13	13	12	—	18	39	48	50	61	231	239	Influenza .. ..
254	3	14	62	79	68	24	3	1	325	254	299	253	201	113	53	20	Respiratory tuberculosis ..
26	1	5	4	6	6	2	—	2	108	91	19	19	18	9	—	40	Other tuberculosis .. ..
33	—	—	1	4	16	9	2	1	—	—	5	13	47	42	36	20	Syphilis, etc. .. .. ..
3	—	—	1	1	1	—	—	—	—	—	5	3	3	—	—	—	Syphilis .. .. ..
8	—	—	—	—	3	3	1	1	—	—	—	—	9	14	18	20	Tabes dorsalis .. .. ..
14	—	—	—	3	7	4	—	—	—	—	—	10	21	19	—	—	General paralysis of insane ..
8	—	—	—	—	5	2	1	—	—	—	—	—	15	9	18	—	Aneurysm .. .. ..
245	—	—	5	13	49	78	41	59	—	—	24	42	145	366	730	1173	Cancer, all sites .. .. ..
5	—	—	—	—	1	1	1	2	—	—	—	—	3	5	18	40	Skin .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip .. ..
7	—	—	—	—	1	5	—	1	—	—	—	—	3	23	—	20	Tongue .. ..
14	—	—	—	—	1	9	2	2	—	—	—	—	3	42	36	40	Œsophagus .. .. ..
65	—	—	—	5	12	24	8	16	—	—	—	16	36	113	142	318	Stomach .. .. ..
154	—	—	5	8	34	39	30	38	—	—	24	26	101	183	534	755	Other sites .. .. ..
10	—	—	—	—	—	4	1	5	—	—	—	—	—	19	18	99	Chronic rheumatism, etc., Gout
28	—	1	2	1	1	7	9	7	—	18	10	3	3	33	160	139	Diabetes .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism .. .. ..
147	—	—	1	2	17	37	24	66	—	—	5	6	50	174	427	1312	Cerebral hæmorrhage, etc. ..
56	—	1	2	5	10	15	9	14	—	18	10	16	30	70	160	278	Other dis. of the nervous system
141	—	1	7	17	16	44	16	40	—	18	34	54	47	206	285	795	Valvular disease of heart ..
169	—	1	5	8	22	37	30	66	—	18	24	26	65	174	534	1312	Other heart disease .. ..
98	—	—	—	3	3	17	16	59	—	—	—	10	9	80	285	1173	Arterio-sclerosis .. .. ..
4	—	—	—	1	1	1	—	1	—	—	—	3	3	5	—	20	Other dis. of circulatory system
148	—	1	1	4	19	33	21	69	—	18	5	13	56	155	374	1371	Bronchitis.. .. .. ..
101	—	1	5	16	23	26	6	24	—	18	24	51	68	122	107	477	Pneumonia .. .. ..
1	—	—	—	—	1	—	—	—	—	—	—	—	3	—	—	—	Chronic interstitial pneumonia..
44	—	—	1	7	12	7	5	12	—	—	5	22	36	33	89	239	Other dis. of respiratory system
13	—	—	—	5	4	1	2	1	—	—	—	16	12	5	36	20	Ulcer of stomach .. ..
15	—	—	—	4	8	1	1	1	—	—	—	13	24	5	18	20	Ulcer of duodenum .. ..
12	—	1	2	2	5	2	—	—	—	18	10	6	15	9	—	—	Appendicitis .. .. ..
5	—	—	—	—	—	—	2	3	—	—	—	—	—	—	36	60	Hernia .. ..
9	—	—	—	1	1	5	1	1	—	—	—	3	3	23	18	20	Intestinal obstruction .. ..
9	—	—	—	—	5	2	—	2	—	—	—	—	15	9	—	40	Cirrhosis of liver .. .. ..
39	—	—	2	1	13	9	3	11	—	—	10	3	39	42	53	219	Other dis. of digestive system ..
13	—	2	—	3	3	3	2	—	—	36	—	10	9	14	36	—	Acute nephritis .. .. ..
75	—	—	—	2	14	32	11	16	—	—	—	6	41	150	196	318	Chronic nephritis.. .. ..
30	—	—	—	—	—	2	3	25	—	—	—	—	—	9	53	497	Diseases of the prostate ..
14	—	—	—	—	1	2	3	8	—	—	—	—	3	9	53	159	Other genito-urinary diseases ..
109	—	—	—	—	—	2	10	97	—	—	—	—	—	9	178	1928	Old age .. ..
41	—	—	7	8	13	10	1	2	—	—	34	26	39	47	18	40	Suicide .. ..
43	—	2	2	11	12	3	6	7	—	36	10	35	36	14	107	139	Accident .. ..
78	—	2	6	6	24	21	8	11	—	—	—	—	—	—	—	—	Other causes .. .. ..
2,089	4	33	123	224	384	449	249	623	433	598	594	716	1138	2106	4434	12383	All causes .. .. ..
124,155	924	5,514	20,709	31,293	33,753	21,315	5,616	5,031									Years of life (Census population × 3) .. ..
—	175	170	149	112	98	82	89	91									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,039
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 98

OCCUPATIONAL GROUP 131.—AUCTIONEERS, APPRAISERS, VALUERS (796).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	33	—	—	1	5	6	4	5	12	—	—	13	46	54	46	166	332
Respiratory tuberculosis ..	49	—	2	7	11	17	9	1	2	—	112	90	102	152	102	33	55
Other tuberculosis	6	—	—	1	—	3	1	1	—	—	—	13	—	27	11	33	—
Syphilis, etc.	22	—	—	2	2	6	7	3	2	—	—	26	19	54	80	100	55
Syphilis	1	—	—	—	—	1	—	—	—	—	—	—	—	9	—	—	—
Tabes dorsalis	4	—	—	—	—	1	3	—	—	—	—	—	—	9	34	—	—
General paralysis of insane ..	12	—	—	2	2	3	4	—	1	—	—	26	19	27	46	—	28
Aneurysm	5	—	—	—	—	1	—	3	1	—	—	—	—	9	—	100	28
Cancer, all sites	135	—	—	1	—	26	46	18	44	—	—	13	—	232	524	599	1217
Skin	2	—	—	—	—	1	—	—	1	—	—	—	—	9	—	—	28
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	5	—	—	—	—	1	3	—	1	—	—	—	—	9	34	—	28
Œsophagus	11	—	—	—	—	1	5	3	2	—	—	—	—	9	57	100	55
Stomach	19	—	—	—	—	5	5	5	4	—	—	—	—	45	57	166	111
Other sites	98	—	—	1	—	18	33	10	36	—	—	13	—	161	376	333	996
Chronic rheumatism, etc., Gout	11	—	—	—	1	—	—	4	6	—	—	—	9	—	—	133	166
Diabetes	32	—	—	—	1	5	8	5	13	—	—	—	9	45	91	166	360
Alcoholism	2	—	—	—	1	1	—	—	—	—	—	—	9	9	—	—	—
Cerebral hæmorrhage, etc. ..	102	—	—	—	2	5	16	18	61	—	—	—	19	45	182	599	1687
Other dis. of the nervous system	36	—	—	1	5	6	12	2	10	—	—	13	46	54	137	67	277
Valvular disease of heart ..	55	—	1	3	1	6	11	7	26	—	56	38	9	54	125	233	719
Other heart disease	105	—	—	1	4	8	28	25	39	—	—	13	37	71	319	832	1079
Arterio-sclerosis	72	—	—	—	—	5	17	9	41	—	—	—	—	45	194	299	1134
Other dis. of circulatory system	5	—	—	—	—	1	1	2	1	—	—	—	—	9	11	67	28
Bronchitis..	54	—	—	—	1	2	5	10	36	—	—	—	9	18	57	333	996
Pneumonia	57	—	1	6	7	8	8	6	21	—	56	77	65	71	91	200	581
Chronic interstitial pneumonia..	2	—	—	—	—	—	1	1	—	—	—	—	—	—	11	33	—
Other dis. of respiratory system	11	—	—	—	1	2	—	3	5	—	—	—	9	18	—	100	138
Ulcer of stomach	10	—	—	—	1	1	3	2	3	—	—	—	9	9	34	67	83
Ulcer of duodenum	3	—	—	—	1	—	1	1	—	—	—	—	9	—	11	33	—
Appendicitis	11	—	1	—	2	2	2	4	—	—	56	—	19	18	23	133	—
Hernia	6	—	—	—	—	1	2	—	3	—	—	—	—	9	23	—	83
Intestinal obstruction	6	—	—	—	—	1	1	2	2	—	—	—	—	9	11	67	55
Cirrhosis of liver	13	—	—	—	1	6	4	2	—	—	—	—	9	54	46	67	—
Other dis. of digestive system ..	17	—	—	—	1	1	5	3	7	—	—	—	9	9	57	100	194
Acute nephritis	1	—	—	—	1	—	—	—	—	—	—	—	9	—	—	—	—
Chronic nephritis..	41	—	1	1	2	4	8	9	16	—	56	13	19	36	91	299	443
Diseases of the prostate ..	18	—	—	—	—	—	3	3	12	—	—	—	—	—	34	100	332
Other genito-urinary diseases ..	10	—	—	—	—	1	—	1	8	—	—	—	—	9	—	33	221
Old age	71	—	—	—	—	—	1	2	68	—	—	—	—	—	11	67	1881
Suicide	21	—	—	2	3	7	7	1	1	—	—	26	28	62	80	33	28
Accident	25	1	3	2	4	4	5	3	3	186	168	26	37	36	57	100	83
Other causes	39	—	1	1	3	7	11	9	7	—	—	—	—	—	—	—	—
All causes	1,081	1	10	29	61	142	227	162	449	186	558	371	565	1267	2584	5389	12420
Years of life (Census population × 3)	47,562	537	1,791	7,818	10,803	11,208	8,784	3,006	3,615								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	75	159	93	88	110	100	108	91								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,031
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 102

OCCUPATIONAL GROUP 132.—CIVIL SERVICE OFFICIALS AND CLERKS (800).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 133.—LOCAL AUTHORITY OFFICIALS AND CLERKS (805).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
114	—	3	17	15	15	19	10	35	—	5	15	19	26	50	102	298	Influenza	73	1	3	6	16	6	17	1	23	8	15	14	41	18	73	15	306
437	13	69	140	94	74	36	6	5	137	113	124	120	126	95	61	43	Respiratory tuberculosis ..	196	10	30	53	36	37	24	5	1	81	149	128	92	110	103	76	13
33	2	3	11	5	8	3	—	1	21	5	10	6	14	8	—	9	Other tuberculosis	26	3	3	5	6	5	4	—	—	24	15	12	15	15	17	—	—
69	—	1	2	11	22	16	9	8	—	2	2	14	38	42	92	68	Syphilis, etc.	32	—	—	1	7	10	9	2	3	—	—	2	18	30	38	30	40
9	—	—	1	3	2	2	1	—	—	—	1	4	3	5	10	—	Syphilis..	4	—	—	—	1	2	1	—	—	—	—	—	3	6	4	—	—
10	—	—	—	1	2	4	3	—	—	—	—	1	3	11	31	—	Tabes dorsalis	12	—	—	—	4	3	2	1	2	—	—	—	10	9	9	15	27
22	—	1	1	6	8	3	2	1	—	2	1	8	14	8	20	9	General paralysis of insane ..	6	—	—	1	—	2	1	1	1	—	—	2	—	6	4	15	13
28	—	—	—	1	10	7	3	7	—	—	—	1	17	18	31	60	Aneurysm	10	—	—	—	2	3	5	—	—	—	—	—	5	9	21	—	—
490	—	2	6	19	87	165	65	146	—	3	5	24	149	436	664	1242	Cancer, all sites	282	—	1	3	9	51	84	59	75	—	5	7	23	152	359	892	996
10	—	—	—	—	1	2	1	6	—	—	—	—	2	5	10	51	Skin	4	—	—	—	—	—	1	—	3	—	—	—	—	—	4	—	40
4	—	—	—	—	—	—	1	3	—	—	—	—	—	—	10	26	Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19	—	—	—	—	4	8	4	3	—	—	—	—	7	21	41	26	Tongue	18	—	—	1	1	2	6	2	6	—	—	2	3	6	26	30	80
32	—	—	—	—	8	12	4	8	—	—	—	—	14	32	41	68	Œsophagus	15	—	—	—	—	1	7	2	5	—	—	—	—	3	30	30	66
75	—	—	—	7	16	21	10	21	—	—	—	9	27	55	102	179	Stomach	48	—	—	—	1	11	16	10	10	—	—	—	3	33	68	151	133
350	—	2	6	12	58	122	45	105	—	3	5	15	99	322	460	894	Other sites	197	—	1	2	7	37	54	45	51	—	5	5	18	110	231	680	678
16	—	—	—	1	2	4	3	6	—	—	—	1	3	11	31	51	Chronic rheumatism, etc., Gout	14	—	—	—	—	1	6	2	5	—	—	—	—	3	26	30	66
58	—	—	7	3	7	19	5	17	—	—	6	4	12	50	51	145	Diabetes	38	—	—	1	3	9	8	7	10	—	—	2	8	27	34	106	133
5	—	—	—	2	2	1	—	—	—	—	—	3	3	3	—	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
242	—	—	6	3	22	40	34	137	—	—	5	4	38	106	347	1166	Cerebral hæmorrhage, etc. ..	196	—	—	—	3	19	45	32	97	—	—	—	8	57	192	484	1289
104	1	5	14	11	11	29	11	22	11	8	12	14	19	77	112	187	Other dis. of the nervous system	61	—	—	5	4	8	16	7	21	—	—	12	10	24	68	106	279
205	—	2	13	12	30	59	27	62	—	3	12	15	51	156	276	528	Valvular disease of heart ..	140	3	—	5	7	15	35	23	52	24	—	12	18	45	150	348	691
355	—	6	14	17	46	73	52	147	—	10	12	22	79	193	531	1251	Other heart disease	200	1	1	3	4	17	53	39	82	8	5	7	10	51	226	590	1089
194	—	—	—	4	9	39	23	119	—	—	—	5	15	103	235	1013	Arterio-sclerosis	108	—	—	—	—	6	22	19	61	—	—	—	—	18	94	287	810
8	—	1	—	—	—	4	1	2	—	2	—	—	—	11	10	17	Other dis. of circulatory system	12	—	—	—	1	3	3	3	2	—	—	—	3	9	13	45	27
180	—	1	3	6	20	26	15	109	—	2	3	8	34	69	153	928	Bronchitis..	103	—	—	2	1	6	21	11	62	—	—	5	3	18	90	166	824
191	—	13	21	18	38	39	15	47	—	21	19	23	65	103	153	400	Pneumonia	123	1	2	9	17	20	26	14	34	8	10	22	44	60	111	212	452
1	—	—	—	—	1	—	—	—	—	—	—	—	2	—	—	—	Chronic interstitial pneumonia ..	2	—	—	—	1	1	—	—	—	—	—	—	3	3	—	—	—
53	—	1	1	8	13	12	4	14	—	2	1	10	22	32	41	119	Other dis. of respiratory system	34	1	1	2	2	4	9	2	13	8	5	5	5	12	38	30	173
30	—	—	5	5	9	3	6	2	—	—	4	6	15	8	61	17	Ulcer of stomach	19	—	—	2	3	2	11	—	1	—	—	5	8	6	47	—	13
23	—	—	2	5	7	3	4	2	—	—	2	6	12	8	41	17	Ulcer of duodenum	18	—	—	4	1	6	3	2	2	—	—	10	3	18	13	30	27
28	—	3	4	12	2	3	1	3	—	5	4	15	3	8	10	26	Appendicitis	19	—	2	5	2	2	6	—	2	—	10	12	5	6	26	—	27
18	—	—	—	1	2	2	2	11	—	—	—	1	3	5	20	94	Hernia	4	—	—	—	—	—	—	—	4	—	—	—	—	—	—	—	53
32	—	1	2	3	1	8	4	13	—	2	2	4	2	21	41	111	Intestinal obstruction	9	—	1	1	1	—	4	1	1	—	5	2	3	—	17	15	13
28	—	—	—	3	7	8	4	6	—	—	—	4	12	21	41	51	Cirrhosis of liver	21	—	—	—	—	4	9	5	3	—	—	—	—	12	38	76	40
68	—	1	6	7	6	24	2	22	—	2	5	9	10	63	20	187	Other dis. of digestive system ..	42	—	2	—	4	7	9	6	14	—	10	—	10	21	38	91	186
12	—	—	4	1	4	2	—	1	—	—	4	1	7	5	—	9	Acute nephritis	10	—	—	1	1	3	3	1	1	—	—	2	3	9	13	15	13
136	1	2	5	9	19	35	17	48	11	3	4	12	32	92	174	408	Chronic nephritis	98	—	2	3	5	19	25	15	29	—	10	7	13	57	107	227	385
61	—	—	—	—	—	9	13	39	—	—	—	—	—	24	133	332	Diseases of the prostate ..	46	—	—	—	—	1	6	9	30	—	—	—	—	3	26	136	399
41	—	—	4	5	2	5	4	21	—	—	4	6	3	13	41	179	Other genito-urinary diseases ..	25	—	—	1	—	5	4	1	14	—	—	2	—	15	17	15	186
180	—	—	—	—	—	2	8	170	—	—	—	—	—	5	82	1447	Old age	116	—	—	—	—	—	1	4	111	—	—	—	—	—	4	60	1475
61	—	3	11	13	15	11	4	4	—	5	10	17	26	29	41	34	Suicide	36	—	—	4	6	12	11	2	1	—	—	10	15	36	47	30	13
86	2	8	22	8	14	16	3	13	21	13	20	10	24	42	31	111	Accident	45	2	1	6	7	14	9	—	6	16	5	14	18	42	38	—	80
152	3	6	23	20	19	42	18	21	—	—	—	—	—	—	—	—	Other causes	86	2	—	7	17	16	14	10	20	—	—	—	—	—	—	—	—
3,711	22	131	343	321	514	757	370	1,253	232	215	305	411	878	1998	3779	10663	All causes	2,234	24	49	129	164	309	497	282	780	194	244	311	421	920	2123	4263	10363
378,927	9,477	60,858	112,530	78,078	58,554	37,887	9,792	11,751									Years of life (Census population × 3)	184,116	12,402	20,115	41,502	38,967	33,582	23,406	6,615	7,527								
—	94	61	76	64	76	78	76	78									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	79	69	78	66	80	83	85	76								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 739
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 73

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 776
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 78

OCCUPATIONAL GROUP 134.—CLERGYMEN (ANGLICAN CHURCH) (820).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 135.—ROMAN CATHOLIC PRIESTS; MONKS (821).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
57	—	—	—	4	2	10	7	34	—	—	—	28	11	57	109	358	Influenza	5	—	—	1	1	—	1	—	2	—	—	53	41	—	62	—	324
37	—	—	4	9	9	9	4	2	—	—	53	64	52	52	62	21	Respiratory tuberculosis ..	8	—	—	1	3	2	2	—	—	—	—	53	122	94	124	—	—
4	—	—	—	—	1	1	—	2	—	—	—	—	6	6	—	21	Other tuberculosis	1	—	—	—	1	—	—	—	—	—	—	—	41	—	—	—	—
10	—	—	—	—	1	2	3	4	—	—	—	—	6	11	47	42	Syphilis, etc.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1	—	—	—	—	—	1	—	—	—	—	—	—	—	6	—	—	Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	16	—	Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	—	—	—	—	1	1	1	2	—	—	—	—	6	6	16	21	General paralysis of insane ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	16	21	Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
183	—	—	1	5	11	46	39	81	—	—	13	35	63	263	608	853	Cancer, all sites	21	—	—	—	—	5	4	3	9	—	—	—	—	236	248	595	1456
2	—	—	—	1	—	1	—	—	—	—	—	7	—	6	—	—	Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	1	—	—	2	—	—	—	—	6	—	—	21	Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	—	—	—	—	—	2	3	3	—	—	—	—	—	11	47	32	Œsophagus	2	—	—	—	—	1	—	—	1	—	—	—	—	47	—	—	162
27	—	—	1	1	1	12	6	6	—	—	13	7	6	69	94	63	Stomach	3	—	—	—	—	—	1	1	1	—	—	—	—	—	62	198	162
143	—	—	—	3	9	31	30	70	—	—	—	21	52	177	468	737	Other sites	16	—	—	—	—	4	3	2	7	—	—	—	—	189	186	397	1133
8	—	—	—	—	—	1	4	3	—	—	—	—	—	6	62	32	Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
36	—	—	—	—	2	8	10	16	—	—	—	—	11	46	156	169	Diabetes	7	—	—	—	—	—	2	2	3	—	—	—	—	—	124	397	485
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
158	—	—	—	—	7	22	21	108	—	—	—	—	40	126	327	1138	Cerebral hæmorrhage, etc. ..	12	—	—	—	—	—	6	3	3	—	—	—	—	—	372	595	485
46	—	—	1	3	4	11	5	22	—	—	13	21	23	63	78	232	Other dis. of the nervous system	2	—	—	—	1	—	1	—	—	—	—	—	41	—	62	—	—
82	—	—	—	2	4	18	15	43	—	—	—	14	23	103	234	453	Valvular disease of heart ..	9	—	—	—	1	—	2	2	4	—	—	—	41	—	124	397	647
210	—	—	—	1	12	40	38	119	—	—	—	7	69	229	592	1254	Other heart disease	19	—	—	—	—	4	6	1	8	—	—	—	—	189	372	198	1294
157	—	—	—	—	4	26	31	96	—	—	—	—	23	149	483	1011	Arterio-sclerosis	22	—	—	—	—	1	1	4	16	—	—	—	—	47	62	794	2589
10	—	—	—	—	1	3	1	5	—	—	—	—	6	17	16	53	Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
60	—	—	1	—	1	2	9	47	—	—	13	—	6	11	140	495	Bronchitis..	5	—	—	—	—	—	—	1	4	—	—	—	—	—	—	198	647
85	—	—	1	9	9	16	15	35	—	—	13	64	52	92	234	369	Pneumonia	10	—	—	1	3	1	3	—	2	—	—	53	122	47	186	—	324
2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	21	Chronic interstitial pneumonia ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	—	—	—	3	—	4	2	20	—	—	—	21	—	23	31	211	Other dis. of respiratory system	3	—	—	—	—	1	1	—	1	—	—	—	—	47	62	—	162
9	—	—	—	2	2	1	2	2	—	—	—	14	11	6	31	21	Ulcer of stomach	1	—	—	—	—	1	—	—	—	—	—	—	—	47	—	—	—
13	—	—	—	1	2	5	3	2	—	—	—	7	11	29	47	21	Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	1	2	1	5	3	5	—	—	13	14	6	29	47	53	Appendicitis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	62	—	—
5	—	—	—	—	—	1	—	4	—	—	—	—	—	6	—	42	Hernia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	162
18	—	—	—	—	3	4	4	7	—	—	—	—	17	23	62	74	Intestinal obstruction	1	—	—	—	—	—	1	—	—	—	—	—	—	—	62	—	—
9	—	—	—	1	1	2	1	4	—	—	—	7	6	11	16	42	Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	—	—	—	1	3	7	2	16	—	—	—	7	17	40	31	169	Other dis. of digestive system ..	3	—	—	—	—	1	—	1	1	—	—	—	—	47	—	198	162
5	—	—	—	—	—	2	—	3	—	—	—	—	—	11	—	32	Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
78	—	—	1	2	8	9	15	43	—	—	13	14	46	52	234	453	Chronic nephritis..	15	—	—	—	2	—	4	1	8	—	—	—	82	—	248	198	1294
61	—	—	—	—	—	3	8	50	—	—	—	—	—	17	125	527	Diseases of the prostate ..	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	198	324
25	—	—	—	1	2	2	4	16	—	—	—	7	11	11	62	169	Other genito-urinary diseases ..	3	—	—	—	—	—	2	—	1	—	—	—	—	—	124	—	162
128	—	—	—	—	—	—	4	124	—	—	—	—	—	—	62	1306	Old age	14	—	—	—	—	—	—	—	14	—	—	—	—	—	—	—	2265
19	—	—	2	3	6	4	1	3	—	—	26	21	34	23	16	32	Suicide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30	—	—	1	6	6	5	2	10	—	—	13	42	34	29	31	105	Accident	5	—	—	1	1	2	—	1	—	—	—	53	41	94	—	198	—
65	—	—	2	1	11	14	14	23	—	—	—	—	—	—	—	—	Other causes	6	—	—	—	—	1	2	2	1	—	—	—	—	—	—	—	—
1,685	—	—	15	56	113	283	267	951	—	—	198	395	648	1620	4163	10019	All causes..	177	—	—	4	13	19	39	22	80	—	—	210	530	896	2421	4365	12945
72,759	—	210	7,578	14,166	17,427	17,472	6,414	9,492									Years of life (Census population × 3) in thousands	9,516	123	186	1,902	2,451	2,121	1,611	504	618								
—	—	—	50	62	56	63	83	74									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	—	53	83	78	94	87	95								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 561
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 60

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 780
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 82

OCCUPATIONAL GROUP 136.—MINISTERS OF OTHER RELIGIOUS BODIES (826).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	27	—	—	1	2	2	4	3	15	—	—	25	24	24	62	106	341
Respiratory tuberculosis	16	—	—	2	3	4	3	1	3	—	—	51	36	47	46	35	68
Other tuberculosis	3	—	—	—	—	1	2	—	—	—	—	—	—	12	31	—	—
Syphilis, etc.	2	—	—	—	—	—	1	—	1	—	—	—	—	—	15	—	23
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	1	—	—	—	—	—	1	—	—	—	—	—	—	—	15	—	—
Aneurysm	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	23
Cancer, all sites	102	—	—	—	2	9	13	18	60	—	—	—	24	106	201	634	1363
Skin	6	—	—	—	—	1	1	—	4	—	—	—	—	12	15	—	91
Lip	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	23
Tongue	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	23
Œsophagus	1	—	—	—	—	—	1	—	—	—	—	—	—	—	15	—	—
Stomach	28	—	—	—	1	3	1	9	14	—	—	—	12	35	15	317	318
Other sites	65	—	—	—	1	5	10	9	40	—	—	—	12	59	155	317	909
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	45
Diabetes	16	—	—	1	1	2	—	3	9	—	—	25	12	24	—	106	204
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	84	—	—	—	—	5	5	14	60	—	—	—	—	59	77	493	1363
Other dis. of the nervous system	30	—	—	—	2	3	5	3	17	—	—	—	24	35	77	106	386
Valvular disease of heart	57	—	—	—	2	1	16	9	29	—	—	—	24	12	247	317	659
Other heart disease	121	—	—	—	4	6	25	16	70	—	—	—	48	71	387	563	1591
Arterio-sclerosis	56	—	—	—	—	4	10	6	36	—	—	—	—	47	155	211	818
Other dis. of circulatory system	3	—	—	—	—	—	1	—	2	—	—	—	—	—	15	—	45
Bronchitis	33	—	—	—	—	1	2	4	26	—	—	—	—	12	31	141	591
Pneumonia	40	—	—	—	4	4	5	7	20	—	—	—	48	47	77	246	454
Chronic interstitial pneumonia	2	—	—	—	—	1	1	—	—	—	—	—	—	12	15	—	—
Other dis. of respiratory system	17	—	—	—	—	1	4	2	10	—	—	—	—	12	62	70	227
Ulcer of stomach	5	—	—	—	—	2	—	1	2	—	—	—	—	24	—	35	45
Ulcer of duodenum	3	—	—	—	—	2	—	—	1	—	—	—	—	24	—	—	23
Appendicitis	9	—	—	1	2	—	3	1	2	—	—	25	24	—	46	35	45
Hernia	4	—	—	—	—	—	1	1	2	—	—	—	—	—	15	35	45
Intestinal obstruction	3	—	—	—	—	—	1	1	1	—	—	—	—	—	15	35	23
Cirrhosis of liver	3	—	—	—	—	1	1	—	1	—	—	—	—	12	15	—	23
Other dis. of digestive system	27	—	—	—	2	4	4	3	14	—	—	—	24	47	62	106	318
Acute nephritis	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	70	—
Chronic nephritis	32	—	—	—	2	3	7	4	16	—	—	—	24	35	108	141	364
Diseases of the prostate	26	—	—	—	—	—	3	3	20	—	—	—	—	—	46	106	454
Other genito-urinary diseases	16	—	—	—	—	—	—	1	15	—	—	—	—	—	—	35	341
Old age	88	—	—	—	—	—	2	2	84	—	—	—	—	—	31	70	1909
Suicide	4	—	—	—	—	—	3	1	—	—	—	—	—	—	46	35	—
Accident	13	—	—	1	1	—	2	1	8	—	—	25	12	—	31	35	182
Other causes	44	—	—	1	4	5	12	10	12	—	—	—	—	—	—	—	—
All causes	890	—	—	7	31	61	136	117	538	—	—	178	375	720	2104	4118	12224
Years of life (Census population × 3) in thousands	34,647	24	252	3,930	8,265	8,469	6,465	2,841	4,401								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	—	45	59	62	82	83	90								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 639

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 70

OCCUPATIONAL GROUP 137.—BARRISTERS (830).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	9	—	—	—	—	—	1	3	5	—	—	—	—	—	41	294	362
Respiratory tuberculosis	6	—	—	—	2	1	1	1	1	—	—	—	90	41	41	98	72
Other tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis, etc.	6	—	—	—	—	1	2	2	1	—	—	—	—	41	81	196	72
Syphilis	2	—	—	—	—	—	1	—	1	—	—	—	—	—	41	—	72
Tabes dorsalis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	98	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	3	—	—	—	—	1	1	1	—	—	—	—	—	41	41	98	—
Cancer, all sites	46	—	—	1	3	6	7	7	22	—	—	66	135	248	284	686	1591
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	1	—	—	—	—	—	1	—	—	—	—	—	—	—	41	—	—
Tongue	1	—	—	—	—	—	1	—	—	—	—	—	—	—	41	—	—
Œsophagus	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	145
Stomach	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	98	145
Other sites	39	—	—	1	3	6	5	6	18	—	—	66	135	248	203	588	1302
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	145
Diabetes	5	—	—	—	—	—	—	1	4	—	—	—	—	—	—	98	289
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	20	—	—	—	—	2	2	2	14	—	—	—	—	83	81	196	1012
Other dis. of the nervous system	7	—	—	—	—	2	2	—	3	—	—	—	—	83	81	—	217
Valvular disease of heart	13	—	—	1	1	1	4	1	5	—	—	66	45	41	162	98	362
Other heart disease	46	—	—	—	3	5	13	4	21	—	—	—	135	207	527	392	1518
Arterio-sclerosis	29	—	—	—	—	1	6	1	21	—	—	—	—	41	243	98	1518
Other dis. of circulatory system	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	98	—
Bronchitis	12	—	—	—	—	—	1	2	9	—	—	—	—	—	41	196	651
Pneumonia	27	—	—	—	2	1	8	6	10	—	—	—	90	41	324	588	723
Chronic interstitial pneumonia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	72
Other dis. of respiratory system	6	—	—	—	—	1	1	—	4	—	—	—	—	41	41	—	289
Ulcer of stomach	1	—	—	—	—	—	1	—	—	—	—	—	—	—	41	—	—
Ulcer of duodenum	3	—	1	—	1	—	1	—	—	—	980	—	45	—	41	—	—
Appendicitis	9	—	—	1	1	1	2	3	1	—	—	66	45	41	81	294	72
Hernia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	98	—
Intestinal obstruction	3	—	—	—	—	—	3	—	—	—	—	—	—	—	122	—	—
Cirrhosis of liver	3	—	—	—	—	—	1	2	—	—	—	—	—	—	41	196	—
Other dis. of digestive system	7	—	—	—	—	3	1	2	1	—	—	—	—	124	41	196	72
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	14	—	—	—	1	2	4	2	5	—	—	—	45	83	162	196	362
Diseases of the prostate	9	—	—	—	—	—	—	1	8	—	—	—	—	—	—	98	578
Other genito-urinary diseases	6	—	—	—	—	—	1	1	4	—	—	—	—	—	41	98	289
Old age	12	—	—	—	—	—	—	—	12	—	—	—	—	—	—	—	868
Suicide	4	—	—	—	2	—	1	—	1	—	—	—	90	—	41	—	72
Accident	5	—	—	1	1	—	1	—	2	—	—	66	45	—	41	—	145
Other causes	11	—	—	3	—	3	—	1	4	—	—	—	—	—	—	—	—
All causes	324	—	1	7	17	30	64	44	161	—	980	462	767	1242	2595	4314	11641
Years of life (Census population × 3) in thousands	11,118	—	102	1,515	2,217	2,415	2,466	1,020	1,383								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	278	116	120	107	101	86	86								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,171

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 107

OCCUPATIONAL GROUP 138.—SOLICITORS (831).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	28	—	—	1	3	1	7	9	7	—	—	15	27	8	59	242	165
Respiratory tuberculosis	45	—	—	3	15	14	7	1	5	—	—	45	135	117	59	27	118
Other tuberculosis	4	—	—	—	1	2	—	—	1	—	—	—	9	17	—	—	24
Syphilis, etc.	25	—	—	—	3	3	10	4	5	—	—	—	27	25	34	108	118
Syphilis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—
Tabes dorsalis	7	—	—	—	—	1	4	—	2	—	—	—	—	8	34	—	47
General paralysis of insane	8	—	—	—	3	2	2	1	—	—	—	—	27	17	17	27	—
Aneurysm	9	—	—	—	—	—	3	3	3	—	—	—	—	—	25	81	71
Cancer, all sites	156	—	—	—	4	27	49	22	54	—	—	—	36	227	412	592	1269
Skin	1	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	6	—	—	—	—	1	—	3	2	—	—	—	—	8	—	81	47
Œsophagus	15	—	—	—	—	3	6	1	5	—	—	—	—	25	50	27	118
Stomach	15	—	—	—	1	4	4	3	3	—	—	—	9	34	34	81	71
Other sites	119	—	—	—	3	18	39	15	44	—	—	—	27	151	328	404	1034
Chronic rheumatism, etc., Gout	4	—	—	—	—	1	1	1	1	—	—	—	—	8	8	27	24
Diabetes	23	—	—	—	—	2	6	7	8	—	—	—	—	17	50	188	188
Alcoholism	2	—	—	—	—	1	1	—	—	—	—	—	—	8	8	—	—
Cerebral hæmorrhage, etc.	96	—	—	—	—	7	26	18	45	—	—	—	—	59	218	485	1058
Other dis. of the nervous system	28	—	—	—	1	8	2	10	7	—	—	—	9	67	17	269	165
Valvular disease of heart	59	—	—	1	1	7	14	11	25	—	—	15	9	59	118	296	588
Other heart disease	117	—	—	—	2	6	40	28	41	—	—	—	18	50	336	754	964
Arterio-sclerosis	87	—	—	—	—	2	27	10	48	—	—	—	—	17	227	269	1128
Other dis. of circulatory system	7	—	—	—	—	3	2	1	1	—	—	—	—	25	17	27	24
Bronchitis	36	—	—	—	—	2	6	3	25	—	—	—	—	17	50	81	588
Pneumonia	78	—	—	3	8	14	25	9	19	—	—	45	72	117	210	242	447
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	17	—	—	1	2	2	4	2	6	—	—	15	18	17	34	54	141
Ulcer of stomach	5	—	—	—	—	1	2	1	1	—	—	—	—	8	17	27	24
Ulcer of duodenum	5	—	—	—	1	1	1	—	2	—	—	—	9	8	8	—	47
Appendicitis	8	—	—	1	—	5	2	—	—	—	—	15	—	42	17	—	—
Hernia	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	27	24
Intestinal obstruction	5	—	—	—	1	1	—	—	3	—	—	—	9	8	—	—	71
Cirrhosis of liver	20	—	—	—	1	5	11	1	2	—	—	—	9	42	92	27	47
Other dis. of digestive system	24	—	—	—	2	4	11	1	6	—	—	—	18	34	92	27	141
Acute nephritis	2	—	—	—	—	1	—	—	1	—	—	—	—	8	—	—	24
Chronic nephritis	43	—	—	—	2	7	14	8	12	—	—	—	18	59	118	215	282
Diseases of the prostate	30	—	—	—	—	1	3	5	21	—	—	—	—	8	25	135	494
Other genito-urinary diseases	12	—	—	—	—	—	3	2	7	—	—	—	—	—	25	54	165
Old age	47	—	—	—	—	—	—	2	45	—	—	—	—	—	—	54	1058
Suicide	23	—	—	2	5	4	9	2	1	—	—	30	45	34	76	54	24
Accident	20	—	—	—	3	6	1	5	5	—	—	—	27	50	8	135	118
Other causes	37	—	1	1	8	3	11	6	7	—	—	—	—	—	—	—	—
All causes	1,095	—	1	13	63	141	295	170	412	—	242	196	568	1183	2478	4577	9685
Years of life (Census population × 3)	49,938	—	414	6,636	11,100	11,916	11,904	3,714	4,254								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	69	49	89	102	96	92	71								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 899
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 95

OCCUPATIONAL GROUP 139.—REGISTERED MEDICAL PRACTITIONERS (840).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	61	—	—	3	7	11	17	5	18	—	—	23	42	54	105	116	355
Respiratory tuberculosis	61	—	—	7	16	15	18	2	3	—	—	54	96	74	111	47	59
Other tuberculosis	5	—	—	1	1	1	1	1	—	—	—	8	6	5	6	23	—
Syphilis, etc.	27	—	—	1	2	7	12	4	1	—	—	8	12	34	74	93	20
Syphilis	2	—	—	—	1	1	—	—	—	—	—	—	6	5	—	—	—
Tabes dorsalis	9	—	—	—	—	1	6	2	—	—	—	—	—	5	37	47	—
General paralysis of insane	9	—	—	1	1	4	2	1	—	—	—	8	6	20	12	23	—
Aneurysm	7	—	—	—	—	1	4	1	1	—	—	—	—	5	25	23	20
Cancer, all sites	180	—	—	—	2	29	70	26	53	—	—	—	12	143	431	605	1045
Skin	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	23	20
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	7	—	—	—	—	3	2	—	2	—	—	—	—	15	12	—	39
Œsophagus	12	—	—	—	—	5	5	1	1	—	—	—	—	25	31	23	20
Stomach	25	—	—	—	—	—	13	5	7	—	—	—	—	—	80	116	138
Other sites	134	—	—	—	2	21	50	19	42	—	—	—	12	103	308	442	828
Chronic rheumatism, etc., Gout	10	—	—	—	—	—	—	2	8	—	—	—	—	—	—	47	158
Diabetes	33	—	—	2	1	3	10	6	11	—	—	16	6	15	62	140	217
Alcoholism	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	23	—
Cerebral hæmorrhage, etc.	129	—	—	1	—	11	32	22	63	—	—	8	—	54	197	512	1243
Other dis. of the nervous system	36	—	—	—	2	7	5	8	14	—	—	—	12	34	31	186	276
Valvular disease of heart	63	—	—	—	3	6	17	11	26	—	—	—	18	30	105	256	513
Other heart disease	152	—	—	1	5	21	46	20	59	—	—	8	30	103	283	465	1164
Arterio-sclerosis	124	—	—	—	—	10	27	19	68	—	—	—	—	49	166	442	1341
Other dis. of circulatory system	5	—	—	—	—	—	1	2	2	—	—	—	—	—	6	47	39
Bronchitis	47	—	—	—	—	4	11	4	28	—	—	—	—	20	68	93	552
Pneumonia	140	—	1	6	12	43	31	16	31	—	83	47	72	211	191	372	611
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	22	—	—	1	—	8	4	4	5	—	—	8	—	39	25	93	99
Ulcer of stomach	12	—	—	—	1	1	5	2	3	—	—	—	6	5	31	47	59
Ulcer of duodenum	7	—	—	1	2	—	3	1	—	—	—	8	12	—	18	23	—
Appendicitis	14	—	—	1	2	4	4	3	—	—	—	8	12	20	25	70	—
Hernia	2	—	—	—	—	—	2	—	—	—	—	—	—	—	12	—	—
Intestinal obstruction	10	—	—	2	—	2	2	—	4	—	—	16	—	10	12	—	79
Cirrhosis of liver	23	—	—	—	2	7	7	2	5	—	—	—	12	34	43	47	99
Other dis. of digestive system	40	—	1	1	—	7	15	3	13	—	83	8	—	34	92	70	256
Acute nephritis	7	—	—	2	—	2	2	—	1	—	—	16	—	10	12	—	20
Chronic nephritis	75	—	—	—	6	10	28	10	21	—	—	—	36	49	172	233	414
Diseases of the prostate	32	—	—	—	—	—	5	4	23	—	—	—	—	—	31	93	454
Other genito-urinary diseases	23	—	—	1	2	4	5	2	9	—	—	8	12	20	31	47	178
Old age	59	—	—	—	—	—	—	1	58	—	—	—	—	—	—	23	1144
Suicide	35	—	1	4	7	5	11	3	4	—	83	31	42	25	68	70	79
Accident	59	—	2	4	9	16	16	2	10	—	165	31	54	79	98	47	197
Other causes	84	—	1	7	14	15	24	7	16	—	—	—	—	—	—	—	—
All causes	1,578	—	6	46	96	249	431	193	557	—	496	357	577	1225	2651	4489	10936
Years of life (Census population × 3)	76,719	15	1,209	12,897	16,638	20,334	16,257	4,299	5,070								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	141	89	90	106	103	90	81								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,021
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 102

OCCUPATIONAL GROUP 140.—DENTISTS (841).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	7	—	—	—	2	2	1	—	2	—	—	—	25	38	37	—	236
Respiratory tuberculosis	31	—	1	8	11	8	2	—	1	—	73	94	140	153	75	—	118
Other tuberculosis	1	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—	—
Syphilis, etc.	6	—	—	1	—	3	1	1	—	—	—	12	—	57	37	120	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	2	—	—	—	—	1	—	1	—	—	—	—	—	19	—	120	—
General paralysis of insane	4	—	—	1	—	2	1	—	—	—	—	12	—	38	37	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	32	—	—	—	2	11	6	5	8	—	—	—	25	210	225	602	946
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	—	1	1	—	—	—	—	—	—	37	120	—
Œsophagus	3	—	—	—	—	1	—	1	1	—	—	—	—	19	—	120	118
Stomach	4	—	—	—	—	3	1	—	—	—	—	—	—	57	37	—	—
Other sites	23	—	—	—	2	7	4	3	7	—	—	—	25	134	150	361	827
Chronic rheumatism, etc., Gout	3	—	—	—	—	2	1	—	—	—	—	—	—	38	37	—	—
Diabetes	9	—	—	—	—	4	2	2	1	—	—	—	—	76	75	241	118
Alcoholism	1	—	—	—	1	—	—	—	—	—	—	—	13	—	—	—	—
Cerebral hæmorrhage, etc.	19	—	—	—	—	2	2	7	8	—	—	—	—	38	75	842	946
Other dis. of the nervous system	9	—	—	1	2	4	1	—	1	—	—	12	25	76	37	—	118
Valvular disease of heart	19	—	—	—	1	3	7	3	5	—	—	—	13	57	262	361	591
Other heart disease	25	—	—	2	1	2	4	5	11	—	—	23	13	38	150	602	1300
Arterio-sclerosis	18	—	—	—	—	—	5	4	9	—	—	—	—	—	187	481	1064
Other dis. of circulatory system	2	—	—	—	—	1	1	—	—	—	—	—	—	19	37	—	—
Bronchitis	16	—	—	—	1	—	2	3	10	—	—	—	13	—	75	361	1182
Pneumonia	27	—	1	5	5	7	2	1	6	—	73	58	63	134	75	120	709
Chronic interstitial pneumonia	1	—	—	1	—	—	—	—	—	—	—	12	—	—	—	—	—
Other dis. of respiratory system	5	—	—	—	—	1	1	—	3	—	—	—	—	19	37	—	355
Ulcer of stomach	4	—	—	1	1	—	—	2	—	—	—	12	13	—	—	241	—
Ulcer of duodenum	1	—	—	—	—	—	1	—	—	—	—	—	—	—	37	—	—
Appendicitis	3	1	—	1	—	1	—	—	—	219	—	12	—	19	—	—	—
Hernia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	118
Intestinal obstruction	4	—	—	1	—	—	—	1	2	—	—	12	—	—	—	120	236
Cirrhosis of liver	11	—	—	—	1	3	4	1	2	—	—	—	13	57	150	120	236
Other dis. of digestive system	10	—	1	1	1	4	2	—	1	—	73	12	13	76	75	—	118
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	16	—	—	—	2	2	6	2	4	—	—	—	25	38	225	241	473
Diseases of the prostate	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	120	118
Other genito-urinary diseases	3	—	—	—	1	1	—	—	1	—	—	—	13	19	—	—	118
Old age	13	—	—	—	—	—	—	1	12	—	—	—	—	—	—	120	1418
Suicide	11	—	—	1	4	3	2	1	—	—	—	12	51	57	75	120	—
Accident	14	—	—	3	3	5	1	—	2	—	—	35	38	96	37	—	236
Other causes	13	—	—	3	3	—	3	2	2	—	—	—	—	—	—	—	—
All causes	337	1	3	29	42	70	57	42	93	219	218	339	533	1336	2135	5054	10993
Years of life (Census population × 3)	27,855	456	1,377	8,553	7,884	5,238	2,670	831	846								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	89	62	85	83	116	83	101	81								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	910
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	92

OCCUPATIONAL GROUP 141.—TEACHERS (NOT MUSIC TEACHERS) (850).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	102	1	2	14	19	14	28	8	16	18	21	24	34	32	81	98	192
Respiratory tuberculosis	186	5	18	48	43	37	22	8	5	91	193	83	77	83	64	98	60
Other tuberculosis	20	—	2	7	5	3	1	1	1	—	21	12	9	7	3	12	12
Syphilis, etc.	32	—	—	1	5	4	14	3	5	—	—	2	9	9	40	37	60
Syphilis	1	—	—	—	—	1	—	—	—	—	—	—	—	2	—	—	—
Tabes dorsalis	10	—	—	—	—	—	7	1	2	—	—	—	—	—	20	12	24
General paralysis of insane	12	—	—	1	3	2	5	1	—	—	—	2	5	5	14	12	—
Aneurysm	9	—	—	—	2	1	2	1	3	—	—	—	4	2	6	12	36
Cancer, all sites	349	—	2	6	18	53	127	56	87	—	21	10	32	119	367	686	1042
Skin	6	—	—	—	—	—	4	1	1	—	—	—	—	—	12	12	12
Lip	2	—	—	—	—	1	1	—	—	—	—	—	—	2	3	—	—
Tongue	14	—	—	—	1	4	3	1	5	—	—	—	2	9	9	12	60
Œsophagus	22	—	—	—	—	3	7	6	6	—	—	—	—	7	20	74	72
Stomach	70	—	—	2	7	6	24	15	16	—	—	3	13	14	69	184	192
Other sites	235	—	2	4	10	39	88	33	59	—	21	7	18	88	254	404	707
Chronic rheumatism, etc., Gout	8	—	—	—	1	—	3	1	3	—	—	—	2	—	9	12	36
Diabetes	42	—	2	4	6	4	9	7	10	—	21	7	11	9	26	86	120
Alcoholism	1	—	—	—	—	—	1	—	—	—	—	—	—	—	3	—	—
Cerebral hæmorrhage, etc.	218	—	—	3	5	14	61	25	110	—	—	5	9	32	176	306	1318
Other dis. of the nervous system	100	1	1	10	11	23	24	10	20	18	11	17	20	52	69	123	240
Valvular disease of heart	171	—	1	4	9	14	52	31	60	—	11	7	16	32	150	380	719
Other heart disease	292	1	2	8	14	28	77	41	121	18	21	14	25	63	222	502	1449
Arterio-sclerosis	136	—	—	—	—	9	36	30	61	—	—	—	—	20	104	368	731
Other dis. of circulatory system	4	—	—	—	—	1	—	2	1	—	—	—	—	2	—	25	12
Bronchitis	96	—	—	1	3	5	18	11	58	—	—	2	5	11	52	135	695
Pneumonia	144	3	2	14	22	20	37	16	30	55	21	24	39	45	107	196	359
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	42	—	—	3	4	10	6	9	10	—	—	5	7	23	17	110	120
Ulcer of stomach	21	—	1	—	5	2	8	1	4	—	11	—	9	5	23	12	48
Ulcer of duodenum	11	—	—	2	—	4	2	2	1	—	—	3	—	9	6	25	12
Appendicitis	20	2	1	7	2	3	4	—	1	36	11	12	4	7	12	—	12
Hernia	7	—	—	—	—	—	1	—	6	—	—	—	—	—	3	—	72
Intestinal obstruction	27	—	—	1	1	4	15	3	3	—	—	2	2	9	43	37	36
Cirrhosis of liver	15	—	—	—	—	3	9	2	1	—	—	—	—	7	26	25	12
Other dis. of digestive system	64	—	—	3	6	9	16	9	21	—	—	5	11	20	46	110	252
Acute nephritis	7	—	—	1	—	3	1	1	1	—	—	2	—	7	3	12	12
Chronic nephritis	90	—	2	6	7	5	32	19	19	—	21	10	13	11	92	233	228
Diseases of the prostate	61	—	—	—	—	—	11	10	40	—	—	—	—	—	32	123	479
Other genito-urinary diseases	31	—	—	—	—	5	6	4	16	—	—	—	—	11	17	49	192
Old age	144	—	—	—	—	—	1	3	140	—	—	—	—	—	3	37	1677
Suicide	53	—	1	5	12	12	14	4	5	—	11	9	21	27	40	49	60
Accident	62	3	6	9	12	9	8	3	12	55	64	16	21	20	23	37	144
Other causes	130	4	3	12	18	24	38	13	18	—	—	—	—	—	—	—	—
All causes	2,686	20	46	169	228	322	682	333	886	364	492	292	408	726	1970	4081	10612
Years of life (Census population × 3)	224,034	5,496	9,342	57,864	55,833	44,364	34,626	8,160	8,349								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	147	140	73	64	63	77	82	78								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	736
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	71

OCCUPATIONAL GROUP 142.—MUSIC TEACHERS (851).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	All Ages 16 and upwards.	Numbers of Deaths at Ages— 16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	12	—	—	—	3	2	—	1	6	—	—	—	93	47	—	109	583
Respiratory tuberculosis	14	—	2	4	2	1	2	—	3	—	439	192	62	23	62	—	292
Other tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis, etc.	8	—	—	—	1	4	3	—	—	—	—	—	31	94	93	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	3	—	—	—	—	1	2	—	—	—	—	—	—	23	62	—	—
General paralysis of insane	4	—	—	—	1	3	—	—	—	—	—	—	31	70	—	—	—
Aneurysm	1	—	—	—	—	—	1	—	—	—	—	—	—	—	31	—	—
Cancer, all sites	42	—	—	1	—	11	11	7	12	—	—	48	—	257	340	760	1166
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	6	—	—	—	—	2	2	2	—	—	—	—	—	47	62	217	—
Stomach	6	—	—	—	—	—	1	1	4	—	—	—	—	—	31	109	389
Other sites	30	—	—	1	—	9	8	4	8	—	—	48	—	211	247	434	777
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	97
Diabetes	8	—	—	—	—	—	4	—	4	—	—	—	—	—	124	—	389
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	39	—	—	—	1	5	7	5	21	—	—	—	31	117	216	543	2041
Other dis. of the nervous system	14	—	—	1	4	1	4	2	2	—	—	48	124	23	124	217	194
Valvular disease of heart	21	—	1	—	1	4	5	4	6	—	219	—	31	94	154	434	583
Other heart disease	24	—	—	1	—	2	7	1	13	—	—	48	—	47	216	109	1263
Arterio-sclerosis	14	—	—	—	—	1	3	3	7	—	—	—	—	23	93	326	680
Other dis. of circulatory system	2	—	—	—	1	—	1	—	—	—	—	—	31	—	31	—	—
Bronchitis	16	—	—	1	1	2	—	1	11	—	—	48	31	47	—	109	1069
Pneumonia	27	—	—	3	5	5	6	2	6	—	—	144	155	117	185	217	583
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	9	—	1	—	—	1	3	3	1	—	219	—	—	23	93	326	97
Ulcer of stomach	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	97
Ulcer of duodenum	3	—	—	—	—	—	2	1	—	—	—	—	—	—	62	109	—
Appendicitis	1	—	—	—	1	—	—	—	—	—	—	—	31	—	—	—	—
Hernia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	109	—
Intestinal obstruction	1	—	—	—	—	—	1	—	—	—	—	—	—	—	31	—	—
Cirrhosis of liver	3	—	—	—	—	1	2	—	—	—	—	—	—	23	62	—	—
Other dis. of digestive system	5	—	—	—	1	1	—	3	—	—	—	—	31	23	—	326	—
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	11	—	—	—	—	1	5	2	3	—	—	—	—	23	154	217	292
Diseases of the prostate	4	—	—	—	—	—	1	1	2	—	—	—	—	—	31	109	194
Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	17	—	—	—	—	—	—	—	17	—	—	—	—	—	—	—	1652
Suicide	3	—	—	—	1	—	—	1	1	—	—	—	31	—	—	109	97
Accident	9	—	—	—	2	1	4	—	2	—	—	—	62	23	124	—	194
Other causes	15	—	—	1	—	2	4	2	6	—	—	—	—	—	—	—	—
All causes	325	—	4	12	24	45	75	40	125	—	877	576	745	1053	2317	4343	12148
Years of life (Census population × 3)	15,402	177	456	2,085	3,222	4,275	3,237	921	1,029								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	249	144	117	91	90	87	89								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,096
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 98

OCCUPATIONAL GROUP 143.—CIVIL ENGINEERS AND SURVEYORS (860).

CAUSE OF DEATH.	All Ages 16 and upwards.	Numbers of Deaths at Ages— 16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	31	—	1	4	2	4	3	4	13	—	36	32	14	32	35	160	354
Respiratory tuberculosis	45	—	2	7	18	10	3	4	1	—	72	57	123	81	35	160	27
Other tuberculosis	6	—	—	3	—	1	2	—	—	—	—	24	—	8	23	—	—
Syphilis, etc.	14	—	—	1	5	2	6	—	—	—	—	8	34	16	69	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	3	—	—	—	—	—	3	—	—	—	—	—	—	—	35	—	—
General paralysis of insane	7	—	—	—	4	2	1	—	—	—	—	—	27	16	12	—	—
Aneurysm	4	—	—	1	1	—	2	—	—	—	—	8	7	—	23	—	—
Cancer, all sites	121	—	1	1	4	19	29	29	38	—	36	8	27	153	336	1158	1035
Skin	2	—	1	—	—	—	1	—	—	—	36	—	—	—	12	—	—
Lip	1	—	—	—	—	—	1	—	—	—	—	—	—	—	12	—	—
Tongue	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	27
Œsophagus	9	—	—	—	—	4	—	1	4	—	—	—	—	32	—	40	109
Stomach	17	—	—	—	1	—	5	6	5	—	—	—	7	—	58	240	136
Other sites	91	—	—	1	3	15	22	22	28	—	—	8	20	121	255	878	763
Chronic rheumatism, etc., Gout	4	—	—	—	—	—	—	1	3	—	—	—	—	—	—	40	82
Diabetes	15	—	—	—	1	2	7	4	1	—	—	—	7	16	81	160	27
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	74	—	—	—	—	9	11	12	42	—	—	—	—	73	127	478	1144
Other dis. of the nervous system	19	—	—	1	1	4	7	2	4	—	—	8	7	32	81	80	109
Valvular disease of heart	61	—	—	—	2	7	12	10	30	—	—	—	14	56	139	399	817
Other heart disease	106	—	—	3	2	12	19	14	56	—	—	24	14	97	220	559	1525
Arterio-sclerosis	48	—	—	—	—	1	6	8	33	—	—	—	—	8	69	319	899
Other dis. of circulatory system	4	—	—	—	1	—	1	—	2	—	—	—	7	—	12	—	54
Bronchitis	33	—	—	—	2	1	2	—	28	—	—	—	14	8	23	—	763
Pneumonia	45	—	1	—	7	9	15	2	11	—	36	—	48	73	174	80	300
Chronic interstitial pneumonia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	12	—	—
Other dis. of respiratory system	10	—	—	—	—	3	2	2	3	—	—	—	—	24	23	80	82
Ulcer of stomach	6	—	—	—	1	1	3	—	1	—	—	—	7	8	35	—	27
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	7	—	—	1	1	2	1	2	—	—	—	8	7	16	12	80	—
Hernia	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	40	27
Intestinal obstruction	9	—	—	—	—	1	2	—	6	—	—	—	—	8	23	—	163
Cirrhosis of liver	9	—	—	—	—	3	4	1	1	—	—	—	—	24	46	40	27
Other dis. of digestive system	23	—	—	—	5	3	3	1	11	—	—	—	34	24	35	40	300
Acute nephritis	2	—	—	—	—	—	1	1	—	—	—	—	—	—	12	40	—
Chronic nephritis	40	—	—	—	2	6	8	11	13	—	—	—	14	48	93	439	354
Diseases of the prostate	19	—	—	—	—	—	1	1	17	—	—	—	—	—	12	40	463
Other genito-urinary diseases	6	—	—	—	—	—	1	2	3	—	—	—	—	—	12	80	82
Old age	50	—	—	—	—	—	—	1	49	—	—	—	—	—	—	40	1334
Suicide	16	—	—	—	5	6	3	2	—	—	—	—	34	48	35	80	—
Accident	27	1	2	1	10	4	1	2	6	143	72	8	68	32	12	80	163
Other causes	44	—	2	5	5	7	8	7	10	—	—	—	—	—	—	—	—
All causes	897	1	9	27	74	117	162	124	383	143	323	218	504	943	1876	4950	10430
Years of life (Census population × 3)	57,765	699	2,787	12,375	14,682	12,411	8,634	2,505	3,672								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	58	92	55	79	82	73	99	77								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 752
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 75

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

OCCUPATIONAL GROUP 144.—ARCHITECTS (863).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up
Influenza	15	—	—	—	1	2	3	3	6	—	—	—	12	34	67	211	346
Respiratory tuberculosis	31	—	4	2	10	2	9	2	2	—	233	32	124	34	201	141	115
Other tuberculosis	7	—	1	—	3	1	—	2	—	—	58	—	37	17	—	141	—
Syphilis, etc.	7	—	—	—	1	2	1	1	2	—	—	—	12	34	22	70	115
Syphilis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	22	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	3	—	—	—	1	1	—	1	—	—	—	—	12	17	—	70	—
Aneurysm	3	—	—	—	—	1	—	—	2	—	—	—	—	17	—	—	115
Cancer, all sites	84	—	—	—	3	9	28	10	34	—	—	—	37	154	626	705	196
Skin	2	—	—	—	—	—	1	—	1	—	—	—	—	—	22	—	58
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	6	—	—	—	—	2	1	—	3	—	—	—	—	34	22	—	173
Œsophagus	4	—	—	—	—	—	3	—	1	—	—	—	—	—	67	—	58
Stomach	9	—	—	—	1	1	2	—	5	—	—	—	12	17	45	—	288
Other sites	63	—	—	—	2	6	21	10	24	—	—	—	25	103	469	705	1384
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	9	—	—	—	2	1	1	—	5	—	—	—	25	17	22	—	288
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	47	—	—	1	—	1	12	11	22	—	—	16	—	17	268	775	1268
Other dis. of the nervous system	20	—	—	2	3	4	2	5	4	—	—	32	37	69	45	352	231
Valvular disease of heart	35	—	1	1	2	1	9	7	14	—	58	16	25	17	201	493	807
Other heart disease	53	—	—	3	2	2	13	12	21	—	—	48	25	34	291	846	1211
Arterio-sclerosis	37	—	—	—	—	2	4	5	26	—	—	—	—	34	89	352	1500
Other dis. of circulatory system	3	—	—	—	—	—	1	2	—	—	—	—	—	—	22	141	—
Bronchitis	26	—	—	—	—	2	3	—	21	—	—	—	—	34	67	—	1211
Pneumonia	36	—	—	1	9	6	8	4	8	—	—	16	112	103	179	282	461
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	5	—	1	—	1	1	—	—	2	—	58	—	12	17	—	—	115
Ulcer of stomach	3	—	—	—	1	2	—	—	—	—	—	—	12	34	—	—	—
Ulcer of duodenum	5	—	—	—	—	2	1	—	2	—	—	—	—	34	22	—	115
Appendicitis	6	—	—	—	—	3	3	—	—	—	—	—	—	51	67	—	—
Hernia	3	—	—	—	—	—	—	2	1	—	—	—	—	—	—	141	58
Intestinal obstruction	3	—	—	—	—	1	—	1	1	—	—	—	—	17	—	70	58
Cirrhosis of liver	6	—	—	—	—	—	4	—	2	—	—	—	—	—	89	—	115
Other dis. of digestive system	11	—	—	1	3	1	3	2	1	—	—	16	37	17	67	141	58
Acute nephritis	2	—	—	—	—	—	1	—	1	—	—	—	—	—	22	—	58
Chronic nephritis	15	—	—	—	—	2	6	3	4	—	—	—	—	34	134	211	231
Diseases of the prostate	18	—	—	—	—	—	—	5	13	—	—	—	—	—	—	352	750
Other genito-urinary diseases	2	—	—	—	1	—	1	—	—	—	—	—	12	—	22	—	—
Old age	27	—	—	—	—	—	—	—	27	—	—	—	—	—	—	—	1558
Suicide	9	—	—	—	1	3	2	1	2	—	—	—	12	51	45	70	115
Accident	10	2	—	2	—	2	—	—	4	256	—	32	—	34	—	—	231
Other causes	28	—	1	1	—	4	11	7	4	—	—	—	—	—	—	—	—
All causes	563	2	8	14	43	56	126	85	229	256	465	223	534	961	2817	5990	13206
Years of life (Census population × 3)	30,294	780	1,719	6,285	8,055	5,829	4,473	1,419	1,734								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	104	132	56	84	83	110	120	97								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	929
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	94

OCCUPATIONAL GROUP 145.—AUTHORS, EDITORS, JOURNALISTS (870).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	13	—	—	1	2	4	3	2	1	—	—	14	25	51	56	129	62
Respiratory tuberculosis	39	—	1	2	10	14	10	1	1	—	46	28	124	179	188	65	62
Other tuberculosis	8	1	—	1	4	2	—	—	—	73	—	14	50	26	—	—	—
Syphilis, etc.	13	—	—	—	2	7	3	1	—	—	—	—	25	89	56	65	—
Syphilis	1	—	—	—	—	1	—	—	—	—	—	—	—	13	—	—	—
Tabes dorsalis	4	—	—	—	—	2	2	—	—	—	—	—	—	26	38	—	—
General paralysis of insane	5	—	—	—	1	3	—	1	—	—	—	—	12	38	—	65	—
Aneurysm	3	—	—	—	1	1	1	—	—	—	—	—	12	13	19	—	—
Cancer, all sites	74	—	2	—	2	15	23	14	18	—	91	—	25	192	433	904	1110
Skin	2	—	—	—	—	—	2	—	—	—	—	—	—	—	38	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	4	—	—	—	—	1	2	1	—	—	—	—	—	13	38	65	—
Œsophagus	7	—	—	—	—	1	4	—	2	—	—	—	—	13	75	—	123
Stomach	12	—	—	—	—	4	1	4	3	—	—	—	—	51	19	258	185
Other sites	49	—	2	—	2	9	14	9	13	—	91	—	25	115	263	581	802
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	2	—	—	—	—	—	—	—	38	—	—
Diabetes	11	—	—	—	—	1	2	2	6	—	—	—	—	13	38	129	370
Alcoholism	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	65	—
Cerebral hæmorrhage, etc.	53	—	—	—	—	7	13	11	22	—	—	—	—	89	245	711	1356
Other dis. of the nervous system	15	—	—	4	—	4	1	—	6	—	—	57	—	51	19	—	370
Valvular disease of heart	39	—	—	—	5	5	14	2	13	—	—	—	62	64	263	129	802
Other heart disease	58	—	1	1	3	7	11	15	20	—	46	14	37	89	207	969	1233
Arterio-sclerosis	39	—	—	—	1	5	11	6	16	—	—	—	12	64	207	388	986
Other dis. of circulatory system	4	—	—	—	—	2	1	1	—	—	—	—	—	26	19	65	—
Bronchitis	31	—	—	—	—	4	7	2	18	—	—	—	—	51	132	129	1110
Pneumonia	40	—	—	2	6	2	12	4	14	—	—	28	75	26	226	258	863
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	5	—	—	—	—	1	2	1	1	—	—	—	—	13	38	65	62
Ulcer of stomach	6	—	—	—	—	4	2	—	—	—	—	—	—	51	38	—	—
Ulcer of duodenum	2	—	—	—	—	—	1	—	1	—	—	—	—	—	19	—	62
Appendicitis	6	1	—	1	—	—	2	2	—	73	—	14	—	—	38	129	—
Hernia	3	—	—	—	1	1	—	—	1	—	—	—	12	13	—	—	62
Intestinal obstruction	3	—	—	—	—	3	—	—	—	—	—	—	—	38	—	—	—
Cirrhosis of liver	11	—	—	—	—	5	5	1	—	—	—	—	—	64	94	65	—
Other dis. of digestive system	11	—	—	1	1	1	1	2	5	—	—	14	12	13	19	129	308
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	27	—	—	—	1	4	9	5	8	—	—	—	12	51	169	323	493
Diseases of the prostate	7	—	—	—	—	—	1	2	4	—	—	—	—	—	19	129	247
Other genito-urinary diseases	13	—	—	—	1	1	3	1	7	—	—	—	12	13	56	65	432
Old age	11	—	—	—	—	—	—	—	11	—	—	—	—	—	—	—	678
Suicide	9	—	—	2	3	2	1	1	—	—	—	28	37	26	19	65	—
Accident	17	—	—	1	4	2	1	4	5	—	—	14	50	26	19	258	308
Other causes	17	—	1	1	1	6	5	1	2	—	—	—	—	—	—	—	—
All causes	588	2	5	17	47	109	146	82	180	147	228	241	584	1392	2746	5297	11091
Years of life (Census population × 3)	34,980	1,362	2,190	7,068	8,043	7,830	5,316	1,548	1,623								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	60	65	60	91	120	107	106	82								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,003
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	103

OCCUPATIONAL GROUP 146.—ARTISTS (875).

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	
28	—	—	1	3	4	5	3	12	—	—	20	62	77	109	193	628	Influenza
36	—	1	4	12	10	7	1	1	—	66	81	246	192	153	64	52	Respiratory tuberculosis
4	—	—	1	—	1	—	—	2	—	—	20	—	19	—	—	105	Other tuberculosis
15	—	1	—	2	5	3	3	1	—	66	—	41	96	66	193	52	Syphilis, etc.
1	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—	—	Syphilis
3	—	—	—	—	1	—	2	—	—	—	—	—	19	—	128	—	Tabes dorsalis
6	—	1	—	2	2	—	1	—	—	66	—	41	38	—	64	—	General paralysis of insane
5	—	—	—	—	1	3	—	1	—	—	—	—	19	66	—	52	Aneurysm
70	—	—	1	3	9	26	13	18	—	—	20	62	173	569	835	942	Cancer, all sites
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	64	—	Skin
2	—	—	—	—	—	1	—	1	—	—	—	—	—	22	—	52	Lip
3	—	—	—	—	—	1	1	1	—	—	—	—	—	22	64	52	Tongue
7	—	—	—	—	—	4	1	2	—	—	—	—	—	88	64	105	Œsophagus
10	—	—	—	1	—	7	1	1	—	—	—	21	—	153	64	52	Stomach
47	—	—	1	2	9	13	9	13	—	—	20	41	173	285	578	680	Other sites
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic rheumatism, etc., Gout
8	—	—	—	1	—	1	—	6	—	—	—	21	—	22	—	314	Diabetes
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism
36	—	—	—	—	—	7	9	20	—	—	—	—	—	153	578	1047	Cerebral hæmorrhage, etc.
17	—	1	1	—	3	3	3	6	—	66	20	—	58	66	193	314	Other dis. of the nervous system
28	1	—	1	1	3	7	5	10	102	—	20	21	58	153	321	523	Valvular disease of heart
56	—	—	1	3	4	9	8	31	—	—	20	62	77	197	514	1623	Other heart disease
33	—	—	—	—	1	6	5	21	—	—	—	—	19	131	321	1099	Arterio-sclerosis
3	—	—	—	—	1	—	—	2	—	—	—	—	19	—	—	105	Other dis. of circulatory system
41	—	—	—	2	4	8	—	27	—	—	—	41	77	175	—	1413	Bronchitis
25	—	1	2	3	2	5	5	7	—	66	41	62	38	109	321	366	Pneumonia
4	—	—	—	2	2	—	—	—	—	—	—	41	38	—	—	—	Chronic interstitial pneumonia
10	—	—	1	—	—	3	2	4	—	—	20	—	—	66	128	209	Other dis. of respiratory system
3	—	—	—	—	2	—	1	—	—	—	—	—	38	—	64	—	Ulcer of stomach
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	64	—	Ulcer of duodenum
3	—	—	2	—	—	1	—	—	—	—	41	—	—	22	—	—	Appendicitis
2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	105	Hernia
3	—	—	1	—	—	1	—	1	—	—	20	—	—	22	—	52	Intestinal obstruction
3	—	—	—	—	—	1	1	1	—	—	—	—	—	22	64	52	Cirrhosis of liver
5	—	—	—	—	1	—	—	4	—	—	—	—	19	—	—	209	Other dis. of digestive system
2	—	—	—	—	—	2	—	—	—	—	—	—	—	44	—	—	Acute nephritis
21	—	—	1	1	3	5	5	6	—	—	20	21	58	109	321	314	Chronic nephritis
12	—	—	—	—	—	4	1	7	—	—	—	—	—	88	64	366	Diseases of the prostate
5	—	—	—	—	1	1	—	3	—	—	—	—	19	22	—	157	Other genito-urinary diseases
34	—	—	—	—	—	1	1	32	—	—	—	—	—	22	64	1675	Old age
6	—	—	—	1	1	4	—	—	—	—	—	21	19	88	—	—	Suicide
11	1	—	—	—	2	2	—	6	102	—	—	—	38	44	—	314	Accident
18	1	—	1	—	5	4	3	4	—	—	—	—	—	—	—	—	Other causes
543	3	4	18	34	64	116	70	234	307	266	366	698	1227	2539	4496	12245	All causes
25,527	978	1,506	4,920	4,872	5,214	4,569	1,557	1,911	Years of life (Census population × 3)								
—	124	76	92	109	106	99	90	90	Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,005
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	101

OCCUPATIONAL GROUP 147.—PROPRIETORS AND MANAGERS OF THEATRES, ENTERTAINMENTS, SPORTS, ETC. (880–884).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	8	—	—	—	—	4	—	—	4	—	—	—	—	52	—	—	687
Respiratory tuberculosis	48	—	2	14	18	12	1	—	1	—	96	177	195	156	29	—	172
Other tuberculosis	6	—	1	—	2	2	—	—	1	—	48	—	22	26	—	—	172
Syphilis, etc.	18	—	—	1	3	6	5	1	2	—	—	13	33	78	143	123	344
Syphilis	3	—	—	1	—	1	—	1	—	—	—	13	—	13	—	123	—
Tabes dorsalis	2	—	—	—	—	—	2	—	—	—	—	—	—	—	57	—	—
General paralysis of insane	6	—	—	—	2	4	—	—	—	—	—	—	22	52	—	—	—
Aneurysm	7	—	—	—	1	1	3	—	2	—	—	—	11	13	86	—	344
Cancer, all sites	47	—	—	—	2	11	14	11	9	—	—	—	22	143	402	1353	1546
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	1	—	1	—	—	—	—	—	13	—	123	—
Œsophagus	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	123	344
Stomach	13	—	—	—	1	3	5	2	2	—	—	—	11	39	143	246	344
Other sites	29	—	—	—	1	7	9	7	5	—	—	—	11	91	258	861	859
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	123	172
Diabetes	11	—	—	2	1	1	2	2	3	—	—	25	11	13	57	246	516
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	16	—	—	—	2	4	4	1	5	—	—	—	22	52	115	123	859
Other dis. of the nervous system	8	—	—	—	1	3	3	—	1	—	—	—	11	39	86	—	172
Valvular disease of heart	23	—	—	2	2	7	3	3	6	—	—	25	22	91	86	369	1031
Other heart disease	35	—	—	2	2	12	7	6	6	—	—	25	22	156	201	738	1031
Arterio-sclerosis	11	—	—	—	—	1	3	1	6	—	—	—	—	13	86	123	1031
Other dis. of circulatory system	2	—	—	1	—	1	—	—	—	—	—	13	—	13	—	—	—
Bronchitis	23	—	—	—	1	2	3	5	12	—	—	—	11	26	86	615	2062
Pneumonia	39	—	—	4	6	11	9	4	5	—	—	51	65	143	258	492	859
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	4	—	—	—	1	—	2	—	1	—	—	—	11	—	57	—	172
Ulcer of stomach	4	—	—	1	1	2	—	—	—	—	—	13	11	26	—	—	—
Ulcer of duodenum	2	—	—	1	—	—	1	—	—	—	—	13	—	—	29	—	—
Appendicitis	5	—	—	1	3	—	1	—	—	—	—	13	33	—	29	—	—
Hernia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	29	—	—
Intestinal obstruction	3	—	—	—	—	—	1	—	2	—	—	—	—	—	29	—	344
Cirrhosis of liver	6	—	—	—	—	2	4	—	—	—	—	—	—	26	115	—	—
Other dis. of digestive system	7	—	—	—	1	1	2	2	1	—	—	—	11	13	57	246	172
Acute nephritis	3	—	—	—	2	1	—	—	—	—	—	—	22	13	—	—	—
Chronic nephritis	21	1	—	—	2	7	3	2	6	106	—	—	22	91	86	246	1031
Diseases of the prostate	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	172
Other genito-urinary diseases	7	—	—	—	—	2	2	1	2	—	—	—	—	26	57	123	344
Old age	11	—	—	—	—	—	1	2	8	—	—	—	—	—	29	246	1375
Suicide	11	—	—	—	4	3	4	—	—	—	—	—	43	39	115	—	—
Accident	17	—	1	1	7	3	4	—	1	—	48	13	76	39	115	—	172
Other causes	21	—	1	2	6	7	1	2	2	—	—	—	—	—	—	—	—
All causes	421	1	5	32	67	105	81	44	86	106	241	405	726	1363	2324	5412	14777
Years of life (Census population × 3)	32,724	942	2,076	7,899	9,225	7,701	3,486	813	582								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	43	68	102	114	118	90	108	109								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,020
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	104

OCCUPATIONAL GROUP 148.—ACTORS (885).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	7	—	—	2	—	1	3	—	1	—	—	26	—	22	157	—	236
Respiratory tuberculosis	57	—	3	17	22	11	3	1	—	—	120	220	326	245	157	249	—
Other tuberculosis	4	—	—	2	—	2	—	—	—	—	—	26	—	45	—	—	—
Syphilis, etc.	25	—	—	2	6	9	6	1	1	—	—	26	89	200	314	249	236
Syphilis	2	—	—	1	1	—	—	—	—	—	—	13	15	—	—	—	—
Tabes dorsalis	5	—	—	—	1	1	3	—	—	—	—	—	15	22	157	—	—
General paralysis of insane	14	—	—	1	4	7	2	—	—	—	—	13	59	156	105	—	—
Aneurysm	4	—	—	—	—	1	1	1	1	—	—	—	—	22	52	249	236
Cancer, all sites	37	—	—	1	6	8	12	5	5	—	—	13	89	178	628	1244	1182
Skin	1	—	—	—	1	—	—	—	—	—	—	—	15	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	1	—	1	—	—	—	—	—	22	—	249	—
Œsophagus	3	—	—	1	—	1	1	—	—	—	—	13	—	22	52	—	—
Stomach	8	—	—	—	1	2	3	2	—	—	—	—	15	45	157	497	—
Other sites	23	—	—	—	4	4	8	2	5	—	—	—	59	89	419	497	1182
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	236
Diabetes	4	—	—	—	2	—	1	1	—	—	—	—	30	—	52	249	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	20	—	—	—	2	1	5	7	5	—	—	—	30	22	262	1742	1132
Other dis. of the nervous system	11	—	—	4	2	—	2	1	2	—	—	52	30	—	105	249	473
Valvular disease of heart	19	—	1	2	3	2	4	2	5	—	40	26	44	45	209	497	1182
Other heart disease	35	—	—	1	3	7	3	8	13	—	—	13	44	156	157	1990	3075
Arterio-sclerosis	9	—	—	—	—	3	3	1	2	—	—	—	—	67	157	249	473
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	12	—	—	—	1	1	1	4	5	—	—	—	15	22	52	995	1182
Pneumonia	21	—	1	1	5	1	5	4	4	—	40	13	74	22	262	995	946
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	4	—	—	1	1	2	—	—	—	—	—	13	15	45	—	—	—
Ulcer of stomach	4	—	—	—	1	3	—	—	—	—	—	—	15	67	—	—	—
Ulcer of duodenum	2	—	—	1	—	1	—	—	—	—	—	13	—	22	—	—	—
Appendicitis	3	—	—	—	1	1	1	—	—	—	—	—	15	22	52	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	3	—	—	2	—	1	—	—	—	—	—	26	—	22	—	—	—
Cirrhosis of liver	10	—	—	—	—	4	3	2	1	—	—	—	—	89	157	497	236
Other dis. of digestive system	5	—	—	—	1	—	3	—	1	—	—	—	15	—	157	—	236
Acute nephritis	1	—	—	—	—	1	—	—	—	—	—	—	—	22	—	—	—
Chronic nephritis	13	—	—	1	1	4	4	—	3	—	—	13	15	89	209	—	709
Diseases of the prostate	2	—	—	—	—	—	2	—	—	—	—	—	—	—	105	—	—
Other genito-urinary diseases	5	—	—	—	—	1	2	1	1	—	—	—	—	22	105	249	236
Old age	9	—	—	—	—	—	—	—	9	—	—	—	—	—	—	—	2128
Suicide	5	—	—	1	1	2	1	—	—	—	—	13	15	45	52	—	—
Accident	9	—	1	1	5	1	1	—	—	—	40	13	74	22	52	—	—
Other causes	7	—	—	2	2	—	3	—	—	—	—	—	—	—	—	—	—
All causes	344	—	6	41	65	67	68	38	59	—	241	530	963	1491	3558	9453	13948
Years of life (Census population × 3)	25,047	840	2,493	7,737	6,747	4,494	1,911	402	423								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	68	133	151	129	138	189	103								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,336

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 134

OCCUPATIONAL GROUP 149.—MUSICIANS (886).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	14	—	—	1	2	2	2	2	5	—	—	8	17	20	38	149	420
Respiratory tuberculosis	98	1	10	21	28	22	9	4	3	51	241	173	232	220	172	299	252
Other tuberculosis	5	—	—	—	2	1	1	—	1	—	—	—	17	10	19	—	84
Syphilis, etc.	24	—	—	—	11	7	5	—	1	—	—	—	91	70	96	—	84
Syphilis	6	—	—	—	4	1	1	—	—	—	—	—	33	10	19	—	—
Tabes dorsalis	2	—	—	—	—	1	—	—	1	—	—	—	—	10	—	—	84
General paralysis of insane	11	—	—	—	6	3	2	—	—	—	—	—	50	30	38	—	—
Aneurysm	5	—	—	—	1	2	2	—	—	—	—	—	8	20	38	—	—
Cancer, all sites	109	—	—	3	6	23	41	20	16	—	—	25	50	230	786	1495	1343
Skin	4	—	—	—	—	2	—	1	1	—	—	—	—	20	—	75	84
Lip	1	—	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—
Tongue	9	—	—	—	1	3	4	—	1	—	—	—	8	30	77	—	84
Œsophagus	9	—	—	—	—	2	4	2	1	—	—	—	—	20	77	149	84
Stomach	16	—	—	—	2	7	5	1	1	—	—	—	17	70	96	75	84
Other sites	70	—	—	3	3	9	27	16	12	—	—	25	25	90	517	1196	1008
Chronic rheumatism, etc., Gout	3	—	—	—	—	1	2	—	—	—	—	—	—	10	38	—	—
Diabetes	9	—	—	2	2	3	—	—	2	—	—	16	17	30	—	—	168
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	35	—	—	—	4	5	5	4	17	—	—	—	33	50	96	299	1427
Other dis. of the nervous system	20	—	1	2	3	5	6	2	1	—	24	16	25	50	115	149	84
Valvular disease of heart	49	—	—	3	8	10	12	7	9	—	—	25	66	100	230	523	756
Other heart disease	61	—	1	2	5	8	19	6	20	—	24	16	41	80	364	448	1680
Arterio-sclerosis	38	—	—	—	1	1	7	9	20	—	—	—	8	10	134	673	1680
Other dis. of circulatory system	1	—	—	—	—	1	—	—	—	—	—	—	—	10	—	—	—
Bronchitis	48	—	—	1	4	7	11	6	19	—	—	8	33	70	211	448	1595
Pneumonia	54	—	2	7	12	11	11	6	5	—	48	58	99	110	211	448	420
Chronic interstitial pneumonia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	75	—
Other dis. of respiratory system	14	—	—	2	—	3	3	2	4	—	—	16	—	30	58	149	336
Ulcer of stomach	6	—	—	1	1	4	—	—	—	—	—	8	8	40	—	—	—
Ulcer of duodenum	2	—	—	—	—	1	—	1	—	—	—	—	—	10	—	75	—
Appendicitis	8	1	1	1	3	1	1	—	—	51	24	8	25	10	19	—	—
Hernia	1	—	—	—	—	1	—	—	—	—	—	—	—	10	—	—	—
Intestinal obstruction	2	—	—	—	—	1	1	—	—	—	—	—	—	10	19	—	—
Cirrhosis of liver	7	—	—	—	—	2	3	1	1	—	—	—	—	20	58	75	84
Other dis. of digestive system	14	—	—	1	1	2	4	2	4	—	—	8	8	20	77	149	336
Acute nephritis	2	—	—	—	—	1	—	1	—	—	—	—	—	10	—	75	—
Chronic nephritis	21	—	—	2	5	3	5	2	4	—	—	16	41	30	96	149	336
Diseases of the prostate	9	—	—	—	—	—	2	2	5	—	—	—	—	—	38	149	420
Other genito-urinary diseases	8	—	—	1	—	2	1	1	3	—	—	8	—	20	19	75	252
Old age	27	—	—	—	—	—	—	2	25	—	—	—	—	—	—	149	2099
Suicide	8	—	—	1	1	3	1	1	1	—	—	8	8	30	19	75	84
Accident	21	—	3	3	3	6	2	1	3	—	72	25	25	60	38	75	252
Other causes	16	—	2	2	5	—	3	1	3	—	—	—	—	—	—	—	—
All causes	735	2	20	56	107	137	157	84	172	103	482	460	886	1367	3009	6278	14442
Years of life (Census population × 3)	48,108	1,947	4,149	12,171	12,075	10,020	5,217	1,338	1,191								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	42	137	115	139	118	117	126	106								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,220

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 122

OCCUPATIONAL GROUP 150. DOMESTIC SERVANTS (INDOOR) (900).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 151.—GAMEKEEPERS (910).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
44	1	2	6	4	11	6	1	13	4	10	17	12	39	33	17	215	Influenza	21	—	—	1	1	2	2	3	12	—	—	24	15	28	40	181	428
198	15	30	47	43	38	19	4	2	56	155	133	134	135	105	69	33	Respiratory tuberculosis	30	1	1	7	7	7	5	1	1	96	92	165	103	96	99	60	36
19	5	2	5	—	4	1	1	1	19	10	14	—	14	6	17	17	Other tuberculosis	6	—	—	1	1	2	2	—	—	—	—	24	15	28	40	—	—
47	1	—	2	11	16	9	6	2	4	—	6	34	57	50	104	33	Syphilis, etc.	7	—	—	—	1	—	2	2	2	—	—	—	15	—	40	120	71
6	—	—	—	2	1	3	—	—	—	—	—	6	4	17	—	—	Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	—	—	—	—	4	3	4	1	—	—	—	—	14	17	69	17	Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	20	—	—
18	1	—	2	7	6	2	—	—	4	—	6	22	21	11	—	—	General paralysis of insane	2	—	—	—	1	—	—	—	1	—	—	—	15	—	—	—	36
11	—	—	—	2	5	1	2	1	—	—	—	6	18	6	35	17	Aneurysm	4	—	—	—	—	—	1	2	1	—	—	—	—	—	20	120	36
286	1	—	1	20	56	84	45	79	4	—	3	62	199	464	779	1309	Cancer, all sites	118	—	—	—	7	11	19	23	58	—	—	—	103	151	378	1384	2070
3	—	—	—	2	—	—	1	—	—	—	—	6	—	—	17	—	Skin	7	—	—	—	1	—	1	—	5	—	—	—	15	—	20	—	178
1	—	—	—	—	—	1	—	—	—	—	—	—	—	6	—	—	Lip	1	—	—	—	—	1	—	—	—	—	—	—	—	14	—	—	—
12	—	—	—	1	3	5	—	3	—	—	—	3	11	28	—	50	Tongue	9	—	—	—	—	—	2	4	3	—	—	—	—	—	40	241	107
31	—	—	—	—	5	15	3	8	—	—	—	—	18	83	52	133	Œsophagus	7	—	—	—	—	2	2	—	3	—	—	—	—	28	40	—	107
42	—	—	—	4	8	12	7	11	—	—	—	12	28	66	121	182	Stomach	23	—	—	—	2	2	3	5	11	—	—	—	29	28	60	301	393
197	1	—	1	13	40	51	34	57	4	—	3	41	142	282	589	944	Other sites	71	—	—	—	4	6	11	14	36	—	—	—	59	83	219	842	1285
7	—	—	—	—	—	2	2	3	—	—	—	—	—	11	35	50	Chronic rheumatism, etc., Gout	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	71
24	—	1	1	3	5	6	3	5	—	5	3	9	18	33	52	83	Diabetes	8	—	—	—	—	1	4	2	1	—	—	—	—	14	80	120	36
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
109	—	—	2	5	13	18	21	50	—	—	6	16	46	99	364	828	Cerebral hæmorrhage, etc.	60	—	—	—	—	3	4	6	47	—	—	—	—	41	80	361	1678
49	2	3	8	4	6	8	1	17	8	16	23	12	21	44	17	282	Other dis. of the nervous system	13	1	—	2	—	—	4	3	3	96	—	47	—	—	80	181	107
121	4	4	5	11	15	21	24	37	15	21	14	34	53	116	416	613	Valvular disease of heart	33	—	—	1	—	—	3	6	23	—	—	24	—	—	60	361	821
166	2	4	2	10	14	39	26	69	8	21	6	31	50	215	450	1143	Other heart disease	67	—	—	1	2	2	5	8	49	—	—	24	29	28	99	481	1749
69	—	—	—	1	4	16	8	40	—	—	—	3	14	88	139	663	Arterio-sclerosis	33	—	—	—	—	—	—	2	31	—	—	—	—	—	—	120	1106
9	—	—	—	—	2	3	1	3	—	—	—	—	7	17	17	50	Other dis. of circulatory system	1	—	—	—	1	—	—	—	—	—	—	—	15	—	—	—	—
126	1	—	1	4	8	17	24	71	4	—	3	12	28	94	416	1176	Bronchitis	56	—	—	—	1	—	4	2	49	—	—	—	15	—	80	120	1749
128	3	3	10	16	28	28	13	27	11	16	28	50	100	155	225	447	Pneumonia	14	—	—	—	1	1	2	1	9	—	—	—	15	14	40	60	321
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	60	—
19	1	—	1	3	3	3	1	7	4	—	3	9	11	17	17	116	Other dis. of respiratory system	12	—	—	—	1	—	3	2	6	—	—	—	15	—	60	120	214
13	1	1	1	1	3	3	—	3	4	5	3	3	11	17	—	50	Ulcer of stomach	5	—	—	—	2	—	2	—	1	—	—	—	29	—	40	—	36
12	—	—	2	1	5	3	1	—	—	—	6	3	18	17	17	—	Ulcer of duodenum	1	—	—	—	—	—	1	—	—	—	—	—	—	—	20	—	—
21	3	1	2	7	4	2	1	1	11	5	6	22	14	11	17	17	Appendicitis	4	—	—	—	—	2	1	1	—	—	—	—	—	28	20	60	—
19	—	—	—	—	3	6	4	6	—	—	—	—	11	33	69	99	Hernia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	36
9	2	—	—	—	3	1	1	2	8	—	—	—	11	6	17	33	Intestinal obstruction	2	—	—	1	—	—	—	—	1	—	—	24	—	—	—	—	36
13	—	—	—	1	3	1	4	4	—	—	—	3	11	6	69	66	Cirrhosis of liver	2	—	—	—	—	—	1	1	—	—	—	—	—	—	20	60	—
42	1	—	5	6	6	10	4	10	4	—	14	19	21	55	69	166	Other dis. of digestive system	12	—	—	—	—	2	2	1	7	—	—	—	—	28	40	60	250
8	—	1	—	—	4	2	1	—	—	5	—	—	14	11	17	—	Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
74	1	1	7	10	14	18	7	16	4	5	20	31	50	99	121	265	Chronic nephritis	17	—	—	—	1	2	2	4	8	—	—	—	15	28	40	241	286
29	—	—	—	—	4	2	6	17	—	—	—	—	14	11	104	282	Diseases of the prostate	16	—	—	—	—	—	2	1	13	—	—	—	—	—	40	60	464
30	—	—	—	5	7	6	3	9	—	—	—	16	25	33	52	149	Other genito-urinary diseases	13	—	—	—	—	—	2	1	10	—	—	—	—	—	40	60	357
105	—	—	—	—	—	2	1	102	—	—	—	—	—	11	17	1690	Old age	109	—	—	—	—	—	—	1	108	—	—	—	—	—	—	60	3854
44	—	2	5	9	11	11	5	1	—	10	14	28	39	61	87	17	Suicide	10	—	1	—	—	3	4	1	1	—	92	—	—	41	80	60	36
53	6	2	5	7	13	7	4	9	23	10	14	22	46	39	69	149	Accident	22	1	—	1	4	1	7	2	6	96	—	24	59	14	139	120	214
88	5	7	8	9	10	19	13	17	—	—	—	—	—	—	—	—	Other causes	27	—	—	2	3	2	4	2	14	—	—	—	—	—	—	—	—
1,981	55	64	126	191	313	373	236	623	207	331	356	595	1113	2058	4087	10321	All causes	723	3	2	17	33	41	87	77	463	287	185	402	485	564	1729	4633	16524
171,495	26,604	19,356	35,391	32,091	28,122	18,120	5,775	6,036									Years of life (Census population × 3)	29,922	1,047	1,083	4,233	6,798	7,266	5,031	1,662	2,802								
—	84	94	89	93	96	80	82	76									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	116	53	101	76	49	67	93	122								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	885
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	89

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	667
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	65

OCCUPATIONAL GROUP 152.—INN, HOTEL-KEEPERS; PUBLICANS (914).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	181	—	1	8	25	56	33	21	37	—	29	37	46	78	70	158	291
Respiratory tuberculosis ..	463	—	1	44	159	169	73	12	5	—	29	202	293	234	154	90	39
Other tuberculosis	29	—	1	2	13	8	4	1	—	—	29	9	24	11	8	8	—
Syphilis, etc.	97	—	—	1	16	28	36	11	5	—	—	5	29	39	76	83	39
Syphilis	11	—	—	—	2	4	4	1	—	—	—	—	4	6	8	8	—
Tabes dorsalis	25	—	—	—	1	11	9	2	2	—	—	—	2	15	19	15	15
General paralysis of insane ..	28	—	—	—	11	7	8	2	—	—	—	—	20	10	17	15	—
Aneurysm	33	—	—	1	2	6	15	6	3	—	—	5	4	8	32	45	24
Cancer, all sites	859	—	—	2	27	171	288	147	224	—	—	9	50	237	609	1104	1762
Skin	22	—	—	—	1	4	6	2	9	—	—	—	2	6	13	15	71
Lip	4	—	—	—	—	—	1	2	1	—	—	—	—	—	2	15	8
Tongue	52	—	—	—	1	13	24	5	9	—	—	—	2	18	51	38	71
Œsophagus	83	—	—	—	1	19	35	7	21	—	—	—	2	26	74	53	165
Stomach	163	—	—	—	2	31	56	35	39	—	—	—	4	43	118	263	307
Other sites	535	—	—	2	22	104	166	96	145	—	—	9	41	144	351	721	1141
Chronic rheumatism, etc., Gout	40	—	—	—	—	3	12	9	16	—	—	—	—	4	25	68	126
Diabetes	165	—	—	1	8	30	61	32	33	—	—	5	15	42	129	240	260
Alcoholism	46	—	—	2	16	22	6	—	—	—	—	9	29	30	13	—	—
Cerebral hæmorrhage, etc. ..	581	—	—	—	15	90	133	103	240	—	—	—	28	125	281	774	1888
Other dis. of the nervous system	159	—	—	4	25	33	38	17	42	—	—	18	46	46	80	128	330
Valvular disease of heart ..	426	—	—	5	31	77	117	64	132	—	—	23	57	107	247	481	1038
Other heart disease	622	—	—	8	25	116	182	99	192	—	—	37	46	161	385	744	1511
Arterio-sclerosis	260	—	—	1	1	16	58	46	138	—	—	5	2	22	123	346	1086
Other dis. of circulatory system	18	—	—	—	—	4	7	3	4	—	—	—	—	6	15	23	31
Bronchitis..	379	—	—	1	16	38	65	49	210	—	—	5	29	53	137	368	1652
Pneumonia	427	—	—	15	85	120	112	39	56	—	—	69	157	166	237	293	441
Chronic interstitial pneumonia ..	2	—	—	—	2	—	—	—	—	—	—	—	4	—	—	—	—
Other dis. of respiratory system	93	—	1	1	8	22	22	10	29	—	29	5	15	30	46	75	228
Ulcer of stomach	55	—	—	3	9	21	13	5	4	—	—	14	17	29	27	38	31
Ulcer of duodenum	29	—	—	1	4	11	8	2	3	—	—	5	7	15	17	15	24
Appendicitis	32	—	2	1	7	11	9	—	2	—	58	5	13	15	19	—	16
Hernia	28	—	—	—	2	1	12	1	12	—	—	—	4	1	25	8	94
Intestinal obstruction	27	—	—	1	3	4	10	2	7	—	—	5	6	6	21	15	55
Cirrhosis of liver	378	—	—	2	41	146	126	37	26	—	—	9	76	202	266	278	205
Other dis. of digestive system ..	145	—	—	1	16	34	39	20	35	—	—	5	29	47	82	150	275
Acute nephritis	37	—	—	—	9	13	6	5	4	—	—	—	17	18	13	38	31
Chronic nephritis..	355	—	—	1	26	97	101	48	82	—	—	5	48	134	213	361	645
Diseases of the prostate ..	70	—	—	—	—	1	5	14	50	—	—	—	—	1	11	105	393
Other genito-urinary diseases ..	71	—	1	—	1	16	14	12	27	—	29	—	2	22	30	90	212
Old age	305	—	—	—	—	—	1	7	297	—	—	—	—	—	2	53	2337
Suicide	187	—	—	7	38	59	50	20	13	—	—	32	70	82	106	150	102
Accident	151	—	1	8	33	42	27	14	26	—	29	37	61	58	57	105	204
Other causes	214	1	—	6	21	51	65	29	41	—	—	—	—	—	—	—	—
All causes	6,931	1	8	126	682	1,510	1,733	879	1,992	48	234	578	1256	2090	3662	6601	15671
Years of life (Census population × 3)	227,217	2,103	3,423	21,813	54,291	72,234	47,325	13,317	12,711								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	19	66	145	197	181	142	132	115								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,585
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 162

OCCUPATIONAL GROUP 153.—BARMEN (915).

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	17	—	—	4	2	5	5	—	1	—	—	26	18	69	142	—	175
Respiratory tuberculosis ..	183	6	25	34	67	34	15	1	1	82	259	225	597	467	427	104	175
Other tuberculosis	11	1	3	2	3	1	1	—	—	14	31	13	27	14	28	—	—
Syphilis, etc.	22	—	1	1	10	4	4	1	1	—	10	7	89	55	114	104	175
Syphilis	2	—	1	—	1	—	—	—	—	—	10	—	9	—	—	—	—
Tabes dorsalis	4	—	—	—	1	—	2	—	1	—	—	—	9	—	57	—	175
General paralysis of insane ..	9	—	—	1	6	2	—	—	—	—	—	7	53	27	—	—	—
Aneurysm	7	—	—	—	2	2	2	1	—	—	—	—	18	27	57	104	—
Cancer, all sites	87	—	3	3	6	25	29	15	6	—	31	20	53	343	826	1553	1053
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	11	—	—	—	1	4	6	—	—	—	—	—	9	55	171	—	—
Œsophagus	16	—	—	1	—	3	7	4	1	—	—	7	—	41	199	414	175
Stomach	20	—	—	—	2	9	5	3	1	—	—	—	18	124	142	311	175
Other sites	40	—	3	2	3	9	11	8	4	—	31	13	27	124	313	828	702
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	1	—	—	—	—	—	—	—	28	—	—
Diabetes	3	1	—	—	2	—	—	—	—	14	—	—	18	—	—	—	—
Alcoholism	6	—	—	1	2	2	1	—	—	—	—	7	18	27	28	—	—
Cerebral hæmorrhage, etc. ..	32	—	—	—	1	12	10	5	4	—	—	—	9	165	285	517	702
Other dis. of the nervous system	18	2	2	3	2	6	2	1	—	27	21	20	18	82	57	104	—
Valvular disease of heart ..	44	—	3	2	7	8	18	—	6	—	31	13	62	110	512	—	1053
Other heart disease	52	1	2	2	4	14	13	4	12	14	21	13	36	192	370	414	2105
Arterio-sclerosis	16	—	—	1	1	—	7	5	2	—	—	7	9	—	199	517	351
Other dis. of circulatory system	1	—	—	—	1	—	—	—	—	—	—	—	9	—	—	—	—
Bronchitis..	53	—	—	3	11	10	8	11	10	—	—	20	98	137	228	1139	1754
Pneumonia	63	1	2	13	23	10	11	3	—	14	21	86	205	137	313	311	—
Chronic interstitial pneumonia ..	1	—	—	—	1	—	—	—	—	—	—	—	9	—	—	—	—
Other dis. of respiratory system	9	1	1	1	2	1	3	—	—	14	10	7	18	14	85	—	—
Ulcer of stomach	13	—	—	3	3	5	2	—	—	—	—	20	27	69	57	—	—
Ulcer of duodenum	4	—	—	—	4	—	—	—	—	—	—	—	36	—	—	—	—
Appendicitis	3	—	1	1	—	1	—	—	—	—	10	7	—	14	—	—	—
Hernia	3	—	—	—	2	—	—	—	1	—	—	—	18	—	—	—	175
Intestinal obstruction	5	—	—	2	—	1	—	1	1	—	—	13	—	14	—	104	175
Cirrhosis of liver	18	—	—	2	2	12	2	—	—	—	—	13	18	165	57	—	—
Other dis. of digestive system ..	8	1	—	1	1	2	1	2	—	14	—	7	9	27	28	207	—
Acute nephritis	1	—	—	—	1	—	—	—	—	—	—	—	9	—	—	—	—
Chronic nephritis..	36	—	1	2	7	10	8	5	3	—	10	13	62	137	228	518	526
Diseases of the prostate ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other genito-urinary diseases ..	7	—	—	—	2	2	1	2	—	—	—	—	18	27	28	207	—
Old age	9	—	—	—	—	—	1	1	7	—	—	—	—	—	28	104	1228
Suicide	18	2	2	3	4	4	2	—	1	27	21	20	36	55	57	—	175
Accident	25	3	1	7	6	3	4	—	1	41	10	46	53	41	114	—	175
Other causes	36	2	4	9	3	4	10	2	2	—	—	—	—	—	—	—	—
All causes	805	21	51	100	180	176	159	59	59	287	529	660	1604	2416	4526	6108	10351
Years of life (Census population × 3)	55,647	7,311	9,639	15,141	11,223	7,284	3,513	966	570								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	116	150	165	251	209	176	122	76								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,955
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 196

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

OCCUPATIONAL GROUP 154.—WAITERS (916).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	12	—	—	2	2	2	3	—	3	—	—	16	23	31	84	—	424
Respiratory tuberculosis	98	4	15	25	20	15	14	5	—	68	217	194	230	234	393	479	—
Other tuberculosis	10	2	2	3	3	—	—	—	—	34	29	23	34	—	—	—	—
Syphilis, etc.	25	—	—	3	7	8	3	1	3	—	—	23	80	125	84	96	424
Syphilis	5	—	—	2	1	—	1	—	1	—	—	16	11	—	28	—	141
Tabes dorsalis	2	—	—	—	—	1	—	—	1	—	—	—	—	16	—	—	141
General paralysis of insane	15	—	—	1	6	6	2	—	—	—	—	8	69	94	56	—	—
Aneurysm	3	—	—	—	—	1	—	1	1	—	—	—	—	16	—	96	141
Cancer, all sites	91	2	2	2	4	25	34	9	13	34	29	16	46	390	956	862	1836
Skin	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	282
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	5	—	—	—	—	—	3	1	1	—	—	—	—	—	84	96	141
Œsophagus	11	—	—	—	—	5	5	—	1	—	—	—	—	78	141	—	141
Stomach	20	1	—	—	1	5	8	2	3	17	—	—	11	78	225	192	424
Other sites	53	1	2	2	3	15	18	6	6	17	29	16	34	234	506	575	847
Chronic rheumatism, etc., Gout	3	—	—	—	—	—	1	2	—	—	—	—	—	—	28	192	—
Diabetes	6	—	—	—	2	2	2	—	—	—	—	—	23	31	56	—	—
Alcoholism	2	—	—	1	1	—	—	—	—	—	—	8	11	—	—	—	—
Cerebral hæmorrhage, etc.	25	—	1	—	—	3	5	3	13	—	14	—	—	47	141	287	1836
Other dis. of the nervous system	14	3	2	—	3	—	3	—	3	51	29	—	34	—	84	—	424
Valvular disease of heart	36	1	2	2	6	6	4	5	10	17	29	16	69	94	112	479	1412
Other heart disease	33	2	2	1	1	3	7	7	10	34	29	8	11	47	197	670	1412
Arterio-sclerosis	24	—	—	—	—	—	6	2	16	—	—	—	—	—	169	192	2260
Other dis. of circulatory system	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	282
Bronchitis	35	—	—	1	2	5	5	2	20	—	—	8	23	78	141	192	2825
Pneumonia	48	—	—	2	9	13	11	6	7	—	—	16	103	203	309	575	989
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	11	—	—	2	1	2	1	1	4	—	—	16	11	31	28	96	565
Ulcer of stomach	3	—	1	—	1	1	—	—	—	—	14	—	11	16	—	—	—
Ulcer of duodenum	1	—	—	—	—	1	—	—	—	—	—	—	—	16	—	—	—
Appendicitis	4	2	—	—	—	1	1	—	—	34	—	—	—	16	28	—	—
Hernia	2	—	—	—	—	1	1	—	—	—	—	—	—	16	28	—	—
Intestinal obstruction	2	—	—	—	—	1	—	—	1	—	—	—	—	16	—	—	141
Cirrhosis of liver	9	—	—	—	—	5	1	1	2	—	—	—	—	78	28	96	282
Other dis. of digestive system	9	1	—	—	2	3	1	—	2	17	—	—	23	47	28	—	282
Acute nephritis	2	—	—	—	—	1	1	—	—	—	—	—	—	16	28	—	—
Chronic nephritis	14	1	—	—	—	3	5	2	3	17	—	—	—	47	141	192	424
Diseases of the prostate	5	—	—	—	—	1	—	3	1	—	—	—	—	16	—	287	141
Other genito-urinary diseases	9	1	—	—	1	2	3	2	—	17	—	—	11	31	84	192	—
Old age	19	—	—	—	—	—	—	2	17	—	—	—	—	—	—	192	2401
Suicide	5	—	1	—	1	1	—	1	1	—	14	—	11	16	—	96	141
Accident	14	2	2	1	4	2	1	2	—	34	29	8	46	31	28	192	—
Other causes	26	1	3	2	3	7	5	1	4	—	—	—	—	—	—	—	—
All causes	599	22	33	47	73	114	118	57	135	374	477	365	839	1780	3316	5460	19068
Years of life (Census population × 3)	46,077	5,883	6,918	12,861	8,700	6,405	3,558	1,044	708								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	151	136	91	131	154	129	109	140								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,323
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	130

OCCUPATIONAL GROUP 155.—LAUNDRY WORKERS (918).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	10	—	—	2	—	3	1	—	4	—	—	39	—	51	27	—	400
Respiratory tuberculosis	36	—	2	7	9	8	8	2	—	—	101	135	150	135	217	171	—
Other tuberculosis	1	—	1	—	—	—	—	—	—	—	50	—	—	—	—	—	—
Syphilis, etc.	7	—	—	1	1	2	1	1	1	—	—	19	17	34	27	85	100
Syphilis	2	—	—	1	—	—	—	1	—	—	—	19	—	—	—	85	—
Tabes dorsalis	2	—	—	—	—	1	—	—	1	—	—	—	—	17	—	—	100
General paralysis of insane	3	—	—	—	1	1	1	—	—	—	—	—	17	17	27	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	47	—	1	—	1	7	18	8	12	—	50	—	17	118	487	682	1201
Skin	1	—	—	—	—	—	1	—	—	—	—	—	—	—	27	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	5	—	—	—	—	1	3	—	1	—	—	—	—	17	81	—	100
Stomach	9	—	—	—	—	1	4	—	4	—	—	—	—	17	108	—	400
Other sites	32	—	1	—	1	5	10	8	7	—	50	—	17	84	271	682	701
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	200
Diabetes	3	—	—	—	—	2	1	—	—	—	—	—	—	34	27	—	—
Alcoholism	1	—	—	—	—	1	—	—	—	—	—	—	—	17	—	—	—
Cerebral hæmorrhage, etc.	30	—	—	—	—	3	6	3	18	—	—	—	—	51	162	256	1802
Other dis. of the nervous system	11	1	—	3	2	—	3	—	2	39	—	58	33	—	81	—	200
Valvular disease of heart	22	—	—	1	1	4	6	5	5	—	—	19	17	68	162	426	501
Other heart disease	31	1	1	1	—	4	11	5	8	39	50	19	—	68	298	426	801
Arterio-sclerosis	8	—	—	—	1	—	1	1	5	—	—	—	17	—	27	85	501
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	22	—	—	1	2	2	3	3	11	—	—	19	33	34	81	256	1101
Pneumonia	30	—	1	5	6	5	4	7	2	—	50	97	100	84	108	597	200
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	6	—	—	—	2	1	2	1	—	—	—	—	33	17	54	85	—
Ulcer of stomach	4	—	—	—	—	1	1	1	1	—	—	—	—	17	27	85	100
Ulcer of duodenum	1	—	—	—	—	—	1	—	—	—	—	—	—	—	27	—	—
Appendicitis	2	—	—	1	—	1	—	—	—	—	—	19	—	17	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	2	1	—	—	—	—	—	—	1	39	—	—	—	—	—	—	100
Cirrhosis of liver	4	—	—	—	1	1	1	1	—	—	—	—	17	17	27	85	—
Other dis. of digestive system	5	1	—	—	—	2	1	1	—	39	—	—	—	34	27	85	—
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	19	—	—	—	1	1	7	3	7	—	—	—	17	17	190	256	701
Diseases of the prostate	4	—	—	—	—	—	1	—	3	—	—	—	—	—	27	—	300
Other genito-urinary diseases	3	—	—	—	1	—	—	1	1	—	—	—	17	—	—	85	100
Old age	18	—	—	—	—	—	—	—	18	—	—	—	—	—	—	—	1802
Suicide	10	—	—	—	1	6	1	—	2	—	—	—	17	101	27	—	200
Accident	8	—	—	2	1	2	1	1	1	—	—	39	17	34	27	85	100
Other causes	10	—	—	2	—	4	2	1	1	—	—	—	—	—	—	—	—
All causes	357	4	6	26	30	60	81	45	105	157	302	502	500	1014	2193	3836	10511
Years of life (Census population × 3)	27,501	2,553	1,989	5,178	5,997	5,919	3,693	1,173	999								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	64	86	126	78	88	85	77	77								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	893
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	89

OCCUPATIONAL GROUP 156.—HAIR DRESSERS, ETC. (920).

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
22	—	—	4	1	8	—	2	7	—	—	16	4	41	—	92	384	Influenza .. ..
214	14	21	62	53	50	11	3	—	127	199	240	216	259	128	138	—	Respiratory tuberculosis ..
28	2	2	5	5	9	4	1	—	18	19	19	20	47	47	46	—	Other tuberculosis .. ..
35	—	—	2	4	13	12	4	—	—	—	8	16	67	140	184	—	Syphilis, etc. .. .. ..
3	—	—	—	—	2	—	1	—	—	—	—	—	10	—	46	—	Syphilis .. ..
10	—	—	—	—	3	5	2	—	—	—	—	—	16	58	92	—	Tabes dorsalis .. .. ..
16	—	—	2	3	7	3	1	—	—	—	8	12	36	35	46	—	General paralysis of insane ..
6	—	—	—	1	1	4	—	—	—	—	—	4	5	47	—	—	Aneurysm .. .. ..
134	—	2	2	8	38	43	16	25	—	19	8	33	197	500	737	1371	Cancer, all sites .. .. ..
2	—	—	—	—	1	—	—	1	—	—	—	—	5	—	—	55	Skin .. ..
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	46	—	Lip .. ..
10	—	—	—	—	6	1	1	2	—	—	—	—	31	12	46	110	Tongue .. ..
10	—	—	—	1	7	2	—	—	—	—	—	4	36	23	—	—	Œsophagus .. .. ..
23	—	—	1	3	5	9	—	5	—	—	4	12	26	105	—	274	Stomach .. .. ..
88	—	2	1	4	19	31	14	17	—	19	4	16	98	361	645	932	Other sites .. .. ..
4	—	—	—	—	2	—	1	1	—	—	—	—	10	—	46	55	Chronic rheumatism, etc., Gout
20	—	—	3	—	4	5	4	4	—	—	12	—	21	58	184	219	Diabetes .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism .. .. ..
88	—	1	2	3	11	31	16	24	—	9	8	12	57	361	737	1316	Cerebral hæmorrhage, etc. ..
36	2	—	3	6	5	11	4	5	18	—	12	24	26	128	184	274	Other dis. of the nervous system
80	9	5	9	15	12	9	10	11	81	47	35	61	62	105	460	603	Valvular disease of heart ..
104	1	1	6	8	18	28	12	30	9	9	23	33	93	326	552	1645	Other heart disease .. ..
39	—	—	—	4	7	12	4	12	—	—	—	16	36	140	184	658	Arterio-sclerosis .. ..
5	—	—	—	1	3	—	—	1	—	—	—	4	16	—	—	55	Other dis. of circulatory system
75	—	2	1	5	11	16	11	29	—	19	4	20	57	186	506	1590	Bronchitis .. ..
94	—	3	11	21	20	17	10	12	—	28	43	86	104	198	460	658	Pneumonia .. .. ..
1	—	—	—	—	—	1	—	—	—	—	—	—	—	12	—	—	Chronic interstitial pneumonia ..
23	1	—	4	3	5	7	—	3	9	—	15	12	26	81	—	164	Other dis. of respiratory system
12	—	—	2	3	3	3	1	—	—	—	8	12	16	35	46	—	Ulcer of stomach .. ..
1	—	—	—	—	1	—	—	—	—	—	—	—	5	—	—	—	Ulcer of duodenum .. ..
9	2	2	—	1	1	3	—	—	18	19	—	4	5	35	—	—	Appendicitis .. .. ..
4	—	—	—	—	1	2	1	—	—	—	—	—	5	23	46	—	Hernia .. ..
7	—	—	1	—	1	2	1	2	—	—	4	—	5	23	46	110	Intestinal obstruction .. ..
14	—	—	—	—	6	6	1	1	—	—	—	—	31	70	46	55	Cirrhosis of liver .. .. ..
24	1	1	1	3	6	6	2	4	9	9	4	12	31	70	92	219	Other dis. of digestive system ..
1	—	—	—	1	—	—	—	—	—	—	—	4	—	—	—	—	Acute nephritis .. .. ..
60	—	2	2	9	22	14	4	7	—	19	8	37	114	163	184	384	Chronic nephritis .. ..
13	—	—	—	—	1	3	2	7	—	—	—	—	5	35	92	384	Diseases of the prostate ..
12	—	—	—	2	2	4	2	2	—	—	—	8	10	47	92	110	Other genito-urinary diseases ..
44	—	—	—	—	—	1	2	41	—	—	—	—	—	12	92	2248	Old age .. ..
30	—	—	2	7	15	2	3	1	—	—	8	29	78	23	138	55	Suicide .. ..
22	1	—	5	1	5	2	2	6	9	—	19	4	26	23	92	329	Accident .. ..
55	2	6	10	9	10	13	3	2	—	—	—	—	—	—	—	—	Other causes .. .. ..
1,310	35	48	137	173	290	268	122	237	316	456	530	705	1501	3119	5617	12993	All causes .. .. ..
103,890	11,061	10,533	25,866	24,525	19,317	8,592	2,172	1,824									Years of life (Census population × 3) .. ..
—	128	130	133	110	130	121	113	96									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,234

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 124

OCCUPATIONAL GROUP 157.—CHIMNEY SWEEPS (924).

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	8	—	—	—	—	1	3	—	4	—	—	—	—	23	88	—	326
Respiratory tuberculosis ..	32	—	3	2	7	8	10	2	—	—	544	112	228	181	292	148	—
Other tuberculosis	2	—	—	—	—	1	1	—	—	—	—	—	—	23	29	—	—
Syphilis, etc.	2	—	—	—	—	—	2	—	—	—	—	—	—	—	58	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	2	—	—	—	—	—	2	—	—	—	—	—	—	—	58	—	—
General paralysis of insane ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	79	—	—	—	4	14	20	15	26	—	—	—	130	318	584	1109	2119
Skin	21	—	—	—	2	2	4	3	10	—	—	—	65	45	117	222	815
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	4	—	—	—	—	1	—	—	3	—	—	—	—	23	—	—	244
Œsophagus	3	—	—	—	—	—	1	1	1	—	—	—	—	—	29	74	81
Stomach	11	—	—	—	—	6	2	2	1	—	—	—	—	136	58	148	81
Other sites	40	—	—	—	2	5	13	9	11	—	—	—	65	113	380	665	896
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	74	163
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	27	—	—	—	—	1	5	11	10	—	—	—	—	23	146	813	815
Other dis. of the nervous system	7	—	—	—	1	2	1	3	—	—	—	—	33	45	29	222	—
Valvular disease of heart ..	19	—	1	1	—	3	8	3	3	—	181	56	—	68	234	222	244
Other heart disease	36	—	—	2	—	5	8	8	13	—	—	112	—	113	234	591	1059
Arterio-sclerosis	19	—	—	—	—	—	5	—	14	—	—	—	—	—	146	—	1141
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	54	—	—	—	1	2	11	13	27	—	—	—	33	45	321	961	2200
Pneumonia	22	—	—	1	3	5	5	2	6	—	—	56	98	113	146	148	489
Chronic interstitial pneumonia ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	3	—	—	—	—	—	2	—	1	—	—	—	—	—	58	—	81
Ulcer of stomach	3	—	—	—	—	1	1	1	—	—	—	—	—	23	29	74	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	1	—	—	—	—	1	—	—	—	—	—	—	—	23	—	—	—
Hernia	3	—	—	—	—	—	2	—	1	—	—	—	—	—	58	—	81
Intestinal obstruction	1	—	—	—	—	—	1	—	—	—	—	—	—	—	29	—	—
Cirrhosis of liver	3	—	—	—	1	1	—	—	1	—	—	—	33	23	—	—	81
Other dis. of digestive system ..	9	—	—	—	—	—	2	3	4	—	—	—	—	—	58	222	326
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	14	—	—	—	—	2	6	1	5	—	—	—	—	45	175	74	407
Diseases of the prostate ..	2	—	—	—	—	1	—	—	1	—	—	—	—	23	—	—	81
Other genito-urinary diseases ..	3	—	—	—	—	—	1	—	2	—	—	—	—	—	29	—	163
Old age	32	—	—	—	—	—	2	1	29	—	—	—	—	—	58	74	2363
Suicide	3	—	—	—	3	—	—	—	—	—	—	—	98	—	—	—	—
Accident	10	—	—	—	1	3	4	1	1	—	—	—	33	68	117	74	81
Other causes	11	—	—	—	—	2	2	4	3	—	—	—	—	—	—	—	—
All causes	408	—	4	6	21	53	102	69	153	—	725	336	684	1203	2980	5100	12469
Years of life (Census population × 3)	16,290	468	552	1,788	3,072	4,407	3,423	1,353	1,227								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	206	84	107	104	116	102	92								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,123

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 111

OCCUPATIONAL GROUP 158.—CLERKS (NOT CIVIL SERVICE OR LOCAL AUTHORITY); TYPISTS (931, 933, 939).

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	
505	33	31	72	94	74	86	44	71	12	11	18	35	39	79	146	254	Influenza
2,527	198	409	754	549	378	174	40	25	74	150	190	202	201	159	132	89	Respiratory tuberculosis
248	36	55	59	37	29	20	7	5	13	20	15	14	15	18	23	18	Other tuberculosis
326	—	2	18	74	105	88	28	11	—	1	5	27	56	81	93	39	Syphilis, etc.
23	—	1	1	4	9	4	2	2	—	0	0	1	5	4	7	7	Syphilis
80	—	—	1	5	22	33	14	5	—	—	0	2	12	30	46	18	Tabes dorsalis
153	—	1	13	56	56	24	3	—	—	0	3	21	30	22	10	—	General paralysis of insane
70	—	—	3	9	18	27	9	4	—	—	1	3	10	25	30	14	Aneurysm
1,675	13	14	55	84	336	519	274	380	5	5	14	31	179	476	906	1360	Cancer, all sites
26	—	—	4	2	4	5	2	9	—	—	1	1	2	5	7	32	Skin
3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	3	7	Lip
81	—	1	—	1	19	29	15	16	—	0	—	0	10	27	50	57	Tongue
141	—	—	—	4	30	65	19	23	—	—	—	1	16	60	63	82	Œsophagus
276	—	—	2	13	57	86	48	70	—	—	1	5	30	79	159	251	Stomach
1,148	13	13	49	64	226	334	189	260	5	5	12	24	120	306	625	931	Other sites
55	—	—	4	1	7	14	9	20	—	—	1	0	4	13	30	72	Chronic rheumatism, etc., Gout
220	9	14	36	23	29	39	32	38	3	5	9	8	15	36	106	136	Diabetes
10	—	—	1	5	1	3	—	—	—	—	0	2	1	3	—	—	Alcoholism
878	2	3	7	31	100	210	154	371	1	1	2	11	53	192	510	1328	Cerebral hæmorrhage, etc.
456	22	31	50	57	89	88	46	73	8	11	13	21	47	81	152	261	Other dis. of the nervous system
893	31	54	92	92	118	193	119	194	12	20	23	34	63	177	394	695	Valvular disease of heart
1,160	22	37	89	90	130	241	171	380	8	14	22	33	69	221	566	1360	Other heart disease
553	1	—	3	9	40	115	120	265	0	—	1	3	21	105	397	949	Arterio-sclerosis
39	—	1	—	2	6	17	4	9	—	0	—	1	3	16	13	32	Other dis. of circulatory system
672	2	7	10	39	58	138	83	335	1	3	3	14	31	126	275	1199	Bronchitis
953	48	55	104	164	178	184	86	134	18	20	26	60	95	169	285	480	Pneumonia
12	—	1	3	4	1	2	1	—	—	0	1	1	1	2	3	—	Chronic interstitial pneumonia
222	8	6	17	30	45	51	22	43	3	2	4	11	24	47	73	154	Other dis. of respiratory system
102	2	3	12	19	36	23	5	2	1	1	3	7	19	21	17	7	Ulcer of stomach
71	1	4	13	17	19	9	5	3	0	1	3	6	10	8	17	11	Ulcer of duodenum
152	23	29	26	24	28	15	3	4	9	11	7	9	15	14	10	14	Appendicitis
37	—	1	—	5	4	10	8	9	—	0	—	2	2	9	26	32	Hernia
88	10	5	2	8	18	23	8	14	4	2	1	3	10	21	26	50	Intestinal obstruction
119	—	—	2	5	29	46	20	17	—	—	1	2	15	42	66	61	Cirrhosis of liver
239	8	11	26	31	42	45	28	48	3	4	7	11	22	41	93	172	Other dis. of digestive system
48	3	3	6	9	11	6	6	4	1	1	2	3	6	5	20	14	Acute nephritis
491	6	13	42	50	89	121	68	102	2	5	11	18	47	111	225	365	Chronic nephritis
175	—	—	—	—	5	35	35	100	—	—	—	—	3	32	116	358	Diseases of the prostate
153	1	6	4	18	24	35	16	49	0	2	1	7	13	32	53	175	Other genito-urinary diseases
495	—	—	—	—	—	10	35	450	—	—	—	—	—	9	116	1611	Old age
277	9	21	33	73	68	51	12	10	3	8	8	27	36	47	40	36	Suicide
353	40	40	62	47	49	49	23	43	15	15	16	17	26	45	76	154	Accident
700	84	66	109	99	114	113	42	73	—	—	—	—	—	—	—	—	Other causes
14,904	612	922	1,711	1,790	2,260	2,773	1,554	3,282	227	338	431	659	1205	2541	5143	11750	All causes
1,565,649	269,286	273,078	396,693	271,707	187,614	109,122	30,216	27,933									Years of life (Census population × 3)
—	92	96	108	103	104	99	103	86									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,019

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 102

OCCUPATIONAL GROUP 158a.—BANK AND INSURANCE CLERKS (Occ. 931, 933, 939. Ind. 684–5).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up
Influenza	47	2	4	7	10	4	12	2	6	4	7	13	33	28	155	113	255
Respiratory tuberculosis	211	18	42	71	34	28	15	2	1	39	77	134	112	198	194	113	43
Other tuberculosis	19	5	7	4	1	1	1	—	—	11	13	8	3	7	13	—	—
Syphilis, etc.	30	—	1	3	7	8	8	2	1	—	2	6	23	57	103	113	43
Syphilis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	57	—
Tabes dorsalis	9	—	—	1	—	2	4	1	1	—	—	2	—	14	52	57	43
General paralysis of insane	15	—	1	2	7	3	2	—	—	—	2	4	23	21	26	—	—
Aneurysm	5	—	—	—	—	3	2	—	—	—	—	—	—	21	26	—	—
Cancer, all sites	142	2	2	6	8	31	42	16	35	4	4	11	26	220	543	907	1490
Skin	4	—	—	—	—	1	—	—	3	—	—	—	—	7	—	—	128
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	10	—	—	—	—	1	5	—	4	—	—	—	—	7	65	—	170
Œsophagus	9	—	—	—	1	1	5	1	1	—	—	—	3	7	65	57	43
Stomach	22	—	—	1	1	8	3	3	6	—	—	2	3	57	39	170	255
Other sites	97	2	2	5	6	20	29	12	21	4	4	9	20	142	375	680	894
Chronic rheumatism, etc., Gout	2	—	—	1	—	1	—	—	—	—	—	2	—	7	—	—	—
Diabetes	18	1	2	3	4	1	1	2	4	2	4	6	13	7	13	113	170
Alcoholism	1	—	—	—	—	—	1	—	—	—	—	—	—	—	13	—	—
Cerebral hæmorrhage, etc.	63	1	1	—	1	7	12	16	25	2	2	—	3	50	155	907	1064
Other dis. of the nervous system	40	1	3	9	6	10	5	2	4	2	6	17	20	71	65	113	170
Valvular disease of heart	66	1	4	11	13	8	12	9	8	2	7	21	43	57	155	510	341
Other heart disease	103	2	2	10	11	8	20	15	35	4	4	19	36	57	259	850	1490
Arterio-sclerosis	31	—	—	—	—	3	4	7	17	—	—	—	—	21	52	397	724
Other dis. of circulatory system	2	—	1	—	—	—	1	—	—	—	2	—	—	—	13	—	—
Bronchitis	48	—	1	1	3	6	9	6	22	—	2	2	10	42	116	340	937
Pneumonia	89	5	7	13	13	17	15	6	13	11	13	25	43	120	194	340	553
Chronic interstitial pneumonia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	13	—	—
Other dis. of respiratory system	21	—	1	1	1	6	3	—	9	—	2	2	3	42	39	—	383
Ulcer of stomach	9	—	—	2	2	4	1	—	—	—	—	4	7	28	13	—	—
Ulcer of duodenum	6	—	1	—	—	2	2	—	1	—	2	—	—	14	26	—	43
Appendicitis	20	2	5	3	6	1	1	1	1	4	9	6	20	7	13	57	43
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	11	—	1	1	—	2	2	1	4	—	2	2	—	14	26	57	170
Cirrhosis of liver	6	—	—	—	—	1	3	1	1	—	—	—	—	7	39	57	43
Other dis. of digestive system	26	1	2	4	3	5	4	3	4	2	4	8	10	35	52	170	170
Acute nephritis	6	—	1	1	2	1	—	1	—	—	2	2	7	7	—	57	—
Chronic nephritis	23	—	—	—	1	5	5	5	7	—	—	—	3	35	65	283	298
Diseases of the prostate	13	—	—	—	—	1	1	1	10	—	—	—	—	7	13	57	426
Other genito-urinary diseases	10	—	1	—	1	3	1	—	4	—	2	—	3	21	13	—	170
Old age	44	—	—	—	—	—	—	—	44	—	—	—	—	—	—	—	1873
Suicide	29	1	4	2	10	6	5	1	—	2	7	4	33	42	65	57	—
Accident	41	8	12	9	5	3	2	1	1	17	22	17	16	21	26	57	43
Other causes	62	14	9	12	5	5	8	4	5	—	—	—	—	—	—	—	—
All causes	1,240	64	114	174	147	178	197	104	262	139	209	328	484	1261	2547	5896	11154
Years of life (Census population × 3)	209,805	46,023	54,435	52,998	30,381	14,121	7,734	1,764	2,349								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	56	59	82	76	109	99	118	82								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 937

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 84

OCCUPATIONAL GROUP 158b.—RAILWAY CLERKS (Occ. 931, 933, 939. Ind. 530).

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	CAUSE OF DEATH.
58	3	7	8	13	4	13	6	4	12	21	16	30	15	92	311	189	Influenza .. ..
292	12	42	86	88	32	26	4	2	49	127	172	204	124	185	207	95	Respiratory tuberculosis ..
31	5	6	7	3	6	1	2	1	21	18	14	7	23	7	104	47	Other tuberculosis .. ..
28	—	—	—	8	12	6	2	—	—	—	—	19	46	43	104	—	Syphilis, etc. .. .. ..
2	—	—	—	2	—	—	—	—	—	—	—	5	—	—	—	—	Syphilis .. ..
9	—	—	—	—	4	3	2	—	—	—	—	—	15	21	104	—	Tabes dorsalis .. .. ..
14	—	—	—	5	8	1	—	—	—	—	—	12	31	7	—	—	General paralysis of insane ..
3	—	—	—	1	—	2	—	—	—	—	—	2	—	14	—	—	Aneurysm .. .. ..
185	2	2	8	8	40	49	32	44	8	6	16	19	155	348	1656	2080	Cancer, all sites .. .. ..
2	—	—	1	—	—	1	—	—	—	—	2	—	—	7	—	—	Skin .. ..
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	47	Lip .. ..
7	—	—	—	—	2	2	2	1	—	—	—	—	8	14	104	47	Tongue .. ..
10	—	—	—	—	2	2	1	5	—	—	—	—	8	14	52	236	Œsophagus .. .. ..
22	—	—	—	—	5	3	8	6	—	—	—	—	19	21	414	284	Stomach .. .. ..
143	2	2	7	8	31	41	21	31	8	6	14	19	120	291	1087	1466	Other sites .. .. ..
5	—	—	—	—	—	2	1	2	—	—	—	—	—	14	52	95	Chronic rheumatism, etc., Gout
30	2	4	4	5	2	4	3	6	8	12	8	12	8	28	155	284	Diabetes .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism .. .. ..
138	—	—	—	4	15	36	31	52	—	—	—	9	58	256	1605	2459	Cerebral hæmorrhage, etc. ..
52	1	3	5	4	11	12	5	11	4	9	10	9	43	85	259	520	Other dis. of the nervous system
106	1	4	8	13	9	27	15	29	4	12	16	30	35	192	776	1371	Valvular disease of heart ..
116	—	1	8	9	17	26	17	38	—	3	16	21	66	185	880	1797	Other heart disease .. ..
64	—	—	1	—	5	23	11	24	—	—	2	—	19	164	569	1135	Arterio-sclerosis .. .. ..
4	—	—	—	—	—	3	1	—	—	—	—	—	—	21	52	—	Other dis. of circulatory system
77	—	1	1	5	8	16	6	40	—	3	2	12	31	114	311	1891	Bronchitis .. ..
125	7	9	12	25	28	23	7	14	29	27	24	58	108	164	362	662	Pneumonia .. .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia ..
25	—	—	4	2	8	7	1	3	—	—	8	5	31	50	52	142	Other dis. of respiratory system
12	—	1	2	2	5	2	—	—	—	3	4	5	19	14	—	—	Ulcer of stomach .. ..
12	1	—	—	7	2	1	1	—	4	—	—	16	8	7	52	—	Ulcer of duodenum .. ..
22	1	5	7	2	4	3	—	—	4	15	14	5	15	21	—	—	Appendicitis .. .. ..
6	—	—	—	1	1	3	1	—	—	—	—	2	4	21	52	—	Hernia .. ..
12	1	—	1	1	2	4	1	2	4	—	2	2	8	28	52	95	Intestinal obstruction .. ..
10	—	—	—	—	1	6	2	1	—	—	—	—	4	43	104	47	Cirrhosis of liver .. .. ..
34	—	3	6	4	7	6	3	5	—	9	12	9	27	43	155	236	Other dis. of digestive system ..
5	1	—	—	1	2	1	—	—	4	—	—	2	8	7	—	—	Acute nephritis .. .. ..
48	—	1	4	7	9	13	5	9	—	3	8	16	35	92	259	426	Chronic nephritis.. .. ..
19	—	—	—	—	—	6	3	10	—	—	—	—	—	43	155	473	Diseases of the prostate ..
25	—	—	—	2	5	7	3	8	—	—	—	5	19	50	155	378	Other genito-urinary diseases ..
60	—	—	—	—	—	3	6	51	—	—	—	—	—	21	311	2411	Old age .. ..
23	—	2	4	6	5	5	—	1	—	6	8	14	19	36	—	47	Suicide .. ..
28	2	3	3	2	5	6	3	4	8	9	6	5	19	43	155	189	Accident .. ..
79	6	8	5	15	15	16	7	7	—	—	—	—	—	—	—	—	Other causes .. .. ..
1,731	45	102	184	237	260	356	179	368	186	309	369	550	1007	2531	9265	17400	All causes .. .. ..
194,241	24,252	33,057	49,881	43,125	25,812	14,067	1,932	2,115									Years of life (Census population × 3) .. ..
—	75	88	92	86	87	98	186	128									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 920

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 91

OCCUPATIONAL GROUP 159.—DRAUGHTSMEN (932).

	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
CAUSE OF DEATH.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	26	1	4	11	2	2	3	—	3	6	20	44	17	34	106	—	442
Respiratory tuberculosis ..	100	13	16	33	23	12	1	1	1	77	79	131	198	203	35	146	147
Other tuberculosis	16	2	6	5	2	—	—	1	—	12	30	20	17	—	—	146	—
Syphilis, etc.	7	—	—	1	1	2	2	—	1	—	—	4	9	34	71	—	147
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	1	—	—	—	—	—	—	—	17	—	—	—
General paralysis of insane ..	3	—	—	1	1	—	1	—	—	—	—	4	9	—	35	—	—
Aneurysm	3	—	—	—	—	1	1	—	1	—	—	—	—	17	35	—	147
Cancer, all sites	42	1	2	3	5	7	9	10	5	6	10	12	43	119	319	1462	737
Skin	1	—	—	—	—	—	1	—	—	—	—	—	—	—	35	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	—	1	—	—	—	—	—	—	—	35	—	—
Œsophagus	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	146	—
Stomach	11	—	—	1	2	1	1	4	2	—	—	4	17	17	35	585	295
Other sites	28	1	2	2	3	6	6	5	3	6	10	8	26	102	213	731	442
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	7	—	3	2	2	—	—	—	—	—	15	8	17	—	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	22	—	1	—	—	1	6	8	6	—	5	—	—	17	213	1170	885
Other dis. of the nervous system	21	1	2	4	3	4	3	1	3	6	10	16	26	68	106	146	442
Valvular disease of heart ..	26	—	3	4	5	3	7	—	4	—	15	16	43	51	248	—	590
Other heart disease	31	1	2	5	4	7	2	2	8	6	10	20	34	119	71	292	1180
Arterio-sclerosis	12	—	—	—	—	1	4	2	5	—	—	—	—	17	142	292	737
Other dis. of circulatory system	2	—	—	1	—	1	—	—	—	—	—	4	—	17	—	—	—
Bronchitis	16	—	—	1	—	2	3	3	7	—	—	4	—	34	106	439	1032
Pneumonia	32	—	3	6	7	7	4	4	1	—	15	24	60	119	142	585	147
Chronic interstitial pneumonia ..	1	—	—	—	—	1	—	—	—	—	—	—	—	17	—	—	—
Other dis. of respiratory system	5	—	—	2	—	—	—	—	3	—	—	8	—	—	—	—	442
Ulcer of stomach	6	—	1	2	—	1	1	—	1	—	5	8	—	17	35	—	147
Ulcer of duodenum	2	—	1	1	—	—	—	—	—	—	5	4	—	—	—	—	—
Appendicitis	5	—	3	1	—	1	—	—	—	—	15	4	—	17	—	—	—
Hernia	4	—	—	1	—	—	1	1	1	—	—	4	—	—	35	146	147
Intestinal obstruction	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	146	—
Cirrhosis of liver	3	—	—	—	—	—	2	1	—	—	—	—	—	—	71	146	—
Other dis. of digestive system ..	9	—	1	1	3	2	—	1	1	—	5	4	26	34	—	146	147
Acute nephritis	4	—	2	—	1	1	—	—	—	—	10	—	9	17	—	—	—
Chronic nephritis..	9	—	1	—	—	2	3	1	2	—	5	—	—	34	106	146	295
Diseases of the prostate ..	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	146	147
Other genito-urinary diseases ..	4	—	—	—	—	1	2	1	—	—	—	—	—	17	71	146	—
Old age	8	—	—	—	—	—	—	—	8	—	—	—	—	—	—	—	1180
Suicide	12	1	—	2	6	2	—	1	—	6	—	8	51	34	—	146	—
Accident	10	1	1	3	2	1	1	—	1	6	5	12	17	17	35	—	147
Other causes	32	3	1	5	4	3	8	6	2	—	—	—	—	—	—	—	—
All causes	477	24	53	94	70	64	62	46	64	142	263	373	597	1085	2196	6725	9440
Years of life (Census population × 3)	84,105	16,956	20,178	25,170	11,718	5,898	2,823	684	678								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	57	75	93	93	94	85	135	69								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 894

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 88

OCCUPATIONAL GROUP 160.—WAREHOUSEMEN (940).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 160a.—WAREHOUSEMEN—TEXTILES AND CLOTHING (940, part).*																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
133	4	3	13	21	23	33	18	18	16	9	20	35	39	99	209	267	Influenza	25	2	—	4	3	4	5	3	4	41	—	43	42	56	115	253	412
470	25	60	88	118	100	65	10	4	102	183	135	197	171	194	116	59	Respiratory tuberculosis ..	112	8	17	21	23	21	19	3	—	166	313	227	324	293	437	253	—
41	7	4	4	7	10	7	2	—	29	12	6	12	17	21	23	—	Other tuberculosis	8	—	1	—	1	4	2	—	—	—	18	—	14	56	46	—	—
55	—	—	4	12	19	16	1	3	—	—	6	20	33	48	12	45	Syphilis, etc.	10	—	—	—	—	6	3	—	1	—	—	—	—	84	69	—	103
5	—	—	1	—	1	3	—	—	—	—	2	—	2	9	—	—	Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	2	3	3	1	1	—	—	—	3	5	9	12	15	Tabes dorsalis	1	—	—	—	—	1	—	—	—	—	—	—	—	14	—	—	—
20	—	—	2	7	6	3	—	2	—	—	3	12	10	9	—	30	General paralysis of insane ..	4	—	—	—	—	3	—	—	1	—	—	—	—	42	—	—	103
20	—	—	1	3	9	7	—	—	—	—	2	5	15	21	—	—	Aneurysm	5	—	—	—	—	2	3	—	—	—	—	—	—	28	69	—	—
459	—	1	6	20	120	151	81	80	—	3	9	33	206	451	941	1187	Cancer, all sites	82	—	—	3	1	23	30	14	11	—	—	32	14	321	690	1181	1132
6	—	—	—	2	—	2	—	2	—	—	—	3	—	6	—	30	Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	12	15	Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28	—	—	—	2	7	13	5	1	—	—	—	3	12	39	58	15	Tongue	2	—	—	—	—	—	1	1	—	—	—	—	—	—	23	84	—
41	—	—	—	—	14	15	5	7	—	—	—	—	24	45	58	104	Œsophagus	10	—	—	—	—	5	3	2	—	—	—	—	—	70	69	169	—
97	—	—	2	7	27	29	16	16	—	—	3	12	46	87	186	237	Stomach	18	—	—	1	1	6	5	3	2	—	—	11	14	84	115	253	206
285	—	1	4	9	72	92	54	53	—	3	6	15	123	275	628	786	Other sites	52	—	—	2	—	12	21	8	9	—	—	22	—	168	483	675	926
13	—	—	—	—	1	5	2	5	—	—	—	—	2	15	23	74	Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	2	3	2	2	6	14	5	6	8	9	3	3	10	42	58	89	Diabetes	13	2	3	1	—	2	3	—	2	41	55	11	—	28	69	—	206
3	—	—	—	1	1	—	1	—	—	—	—	2	2	—	12	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
244	1	—	3	9	28	63	50	90	4	—	5	15	48	188	581	1335	Cerebral hæmorrhage, etc. ..	47	—	—	1	2	7	8	8	21	—	—	11	28	98	184	675	2160
122	8	10	8	20	28	18	14	16	33	31	12	33	48	54	163	237	Other dis. of the nervous system	30	1	3	3	4	3	6	5	5	21	55	32	56	42	138	422	514
242	3	9	18	32	46	71	28	35	12	28	28	53	79	212	325	519	Valvular disease of heart ..	40	1	2	1	3	8	8	7	10	21	37	11	42	112	184	591	1029
295	3	5	17	19	32	71	42	106	12	15	26	32	55	212	488	1572	Other heart disease	49	1	—	4	2	2	12	6	22	21	—	43	28	28	276	506	2263
169	—	—	1	2	9	27	36	94	—	—	2	3	15	81	418	1394	Arterio-sclerosis	39	—	—	—	—	—	3	8	28	—	—	—	—	—	69	675	2881
14	—	—	—	—	2	5	6	1	—	—	—	—	3	15	70	15	Other dis. of circulatory system	3	—	—	—	—	—	1	2	—	—	—	—	—	—	23	169	—
315	—	1	4	9	39	62	58	142	—	3	6	15	67	185	674	2107	Bronchitis..	56	—	—	—	—	7	10	14	25	—	—	—	—	98	230	1181	2572
297	6	10	27	43	66	68	34	43	25	31	42	72	113	203	395	638	Pneumonia	47	2	3	7	9	9	6	5	6	41	55	76	127	126	138	422	617
3	—	—	—	2	—	1	—	—	—	—	—	3	—	3	—	—	Chronic interstitial pneumonia ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
45	2	—	2	5	10	14	7	5	8	—	3	8	17	42	81	74	Other dis. of respiratory system	9	1	—	—	1	3	1	2	1	21	—	—	14	42	23	169	103
36	1	—	2	10	7	13	2	1	4	—	3	17	12	39	23	15	Ulcer of stomach	9	1	—	1	1	2	4	—	—	21	—	11	14	28	92	—	—
19	—	1	2	4	8	4	—	—	—	3	3	7	14	12	—	—	Ulcer of duodenum	4	—	—	1	1	1	1	—	—	—	—	11	14	14	23	—	—
30	5	5	4	4	3	4	3	2	20	15	6	7	5	12	35	30	Appendicitis	11	1	2	1	—	3	1	1	2	21	37	11	—	42	23	84	206
13	—	1	1	—	—	4	2	5	—	3	2	—	—	12	23	74	Hernia	6	—	1	—	—	—	2	—	3	—	18	—	—	—	46	—	309
19	—	1	—	3	3	7	2	3	—	3	—	5	5	21	23	45	Intestinal obstruction	3	—	—	—	—	—	1	1	1	—	—	—	—	—	23	84	103
21	—	—	—	1	10	6	2	2	—	—	—	2	17	18	23	30	Cirrhosis of liver	2	—	—	—	—	1	1	—	—	—	—	—	—	14	23	—	—
67	—	2	1	4	10	21	11	18	—	6	2	7	17	63	128	267	Other dis. of digestive system ..	13	—	1	—	—	1	6	3	2	—	18	—	—	14	138	253	206
17	—	2	1	4	6	2	1	1	—	6	2	7	10	6	12	15	Acute nephritis	4	—	1	1	1	1	—	—	—	—	18	11	14	14	—	—	—
127	1	1	11	15	18	33	14	34	4	3	17	25	31	99	163	504	Chronic nephritis..	28	—	—	3	2	3	5	3	12	—	—	32	28	42	115	253	1235
44		—	—	—	—	7	9	28	—	—	—	—	—	21	105	415	Diseases of the prostate ..	9	—	—	—	—	—	2	2	5	—	—	—	—	—	46	169	514
24		—	2	3	2	8	4	5	—	—	3	5	3	24	46	74	Other genito-urinary diseases ..	4	—	—	—	1	—	1	1	1	—	—	—	14	—	23	84	103
163		—	—	—	—	3	19	141	—	—	—	—	—	9	221	2092	Old age	37	—	—	—	—	—	—	5	32	—	—	—	—	—	—	422	3292
52		1	7	6	16	15	5	2	—	3	11	10	27	45	58	30	Suicide	7	—	—	2	2	1	1	—	1	—	—	22	28	14	23	—	103
75	10	2	6	9	12	16	5	15	41	6	9	15	21	48	58	223	Accident	13	2	1	1	—	3	2	1	3	41	18	11	—	42	46	84	309
133	8	8	9	20	27	32	15	14	—	—	—	—	—	—	—	—	Other causes	25	—	4	1	3	4	6	4	3	—	—	—	—	—	—	—	—
3,800	86	130	243	405	662	866	489	919	352	397	374	675	1135	2586	5683	13633	All causes..	745	22	39	56	60	119	150	98	201	455	717	605	846	1662	3448	8270	20679
289,305	24,417	32,730	64,974	60,042	58,314	33,483	8,604	6,741									Years of life (Census population × 3)	40,278	4,830	5,439	9,249	7,092	7,161	4,350	1,185	972								
—	143	113	94	106	98	101	114	100									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	184	204	152	132	144	134	166	152								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,007
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 101

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,421
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 143

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* This group comprises the Warehousemen in the Wholesale and Retail Textile and Clothing Distributive Industries (Ind. Code Nos. 635, 636).

OCCUPATIONAL GROUP 160b.—WAREHOUSEMEN—CEREALS, PROVISIONS AND DRY GOODS (940, part)*

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	12	—	—	—	1	5	2	2	2	—	—	—	15	77	54	216	267
Respiratory tuberculosis	52	2	7	11	13	10	9	—	—	81	222	170	193	154	242	—	—
Other tuberculosis	5	1	—	1	1	1	—	1	—	41	—	15	15	15	—	108	—
Syphilis, etc.	6	—	—	1	3	1	1	—	—	—	—	15	45	15	27	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	3	—	—	1	2	—	—	—	—	—	—	15	30	—	—	—	—
Aneurysm	3	—	—	—	1	1	1	—	—	—	—	—	15	15	27	—	—
Cancer, all sites	46	—	—	—	2	17	11	9	7	—	—	—	30	261	296	971	933
Skin	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	267
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	1	—	—	—	—	—	—	—	15	—	—	—	—
Œsophagus	3	—	—	—	—	1	2	—	—	—	—	—	—	15	54	—	—
Stomach	11	—	—	—	1	4	3	1	2	—	—	—	15	62	81	108	267
Other sites	29	—	—	—	—	12	6	8	3	—	—	—	—	185	162	863	400
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	108	—
Diabetes	4	—	—	—	—	1	1	2	—	—	—	—	—	15	27	216	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	30	1	—	—	1	2	12	6	8	41	—	—	15	31	323	647	1067
Other dis. of the nervous system	7	—	1	—	1	1	2	1	1	—	32	—	15	15	54	108	133
Valvular disease of heart	25	—	1	—	6	8	4	2	4	—	32	—	89	123	108	216	533
Other heart disease	39	—	—	2	1	3	14	2	17	—	—	31	15	46	377	216	2267
Arterio-sclerosis	8	—	—	1	—	—	2	2	3	—	—	15	—	—	54	216	400
Other dis. of circulatory system	3	—	—	—	—	—	2	1	—	—	—	—	—	—	54	108	—
Bronchitis	29	—	—	—	1	4	6	5	13	—	—	—	15	62	162	539	1733
Pneumonia	33	—	1	3	6	7	9	2	5	—	32	46	89	108	242	216	667
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	7	—	—	1	—	1	3	1	1	—	—	15	—	15	81	108	133
Ulcer of stomach	6	—	—	—	1	2	3	—	—	—	—	—	15	31	81	—	—
Ulcer of duodenum	1	—	—	—	—	1	—	—	—	—	—	—	—	15	—	—	—
Appendicitis	2	—	—	—	2	—	—	—	—	—	—	—	30	—	—	—	—
Hernia	2	—	—	1	—	—	—	—	1	—	—	15	—	—	—	—	133
Intestinal obstruction	5	—	—	—	1	—	1	1	2	—	—	—	15	—	27	108	267
Cirrhosis of liver	5	—	—	—	1	2	2	—	—	—	—	—	15	31	54	—	—
Other dis. of digestive system	8	—	—	1	—	2	2	1	2	—	—	15	—	31	54	108	267
Acute nephritis	6	—	—	—	2	2	1	1	—	—	—	—	30	31	27	108	—
Chronic nephritis	13	—	1	1	—	1	5	4	1	—	32	15	—	15	135	431	133
Diseases of the prostate	6	—	—	—	—	—	1	2	3	—	—	—	—	—	27	216	400
Other genito-urinary diseases	2	—	—	1	—	—	—	—	1	—	—	15	—	—	—	—	133
Old age	16	—	—	—	—	—	—	1	15	—	—	—	—	—	—	108	2000
Suicide	3	—	—	—	1	1	1	—	—	—	—	—	15	15	27	—	—
Accident	8	1	1	—	2	—	1	2	1	41	32	—	30	—	27	216	133
Other causes	15	1	1	—	—	3	7	1	2	—	—	—	—	—	—	—	—
All causes	405	6	13	24	46	75	102	50	89	244	413	371	683	1153	2746	5394	11867
Years of life (Census population × 3)	30,711	2,457	3,150	6,477	6,732	6,504	3,714	927	750								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	99	117	93	107	100	107	108	87								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,039

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 104

OCCUPATIONAL GROUP 161.—STOREKEEPERS (941).

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	50	2	3	2	6	14	8	9	6	37	32	8	22	57	56	235	200
Respiratory tuberculosis	161	4	17	30	56	31	16	5	2	73	184	117	210	126	113	130	67
Other tuberculosis	15	2	4	3	—	3	1	2	—	37	43	12	—	12	7	52	—
Syphilis, etc.	33	—	—	2	6	15	8	2	—	—	—	8	22	61	56	52	—
Syphilis	2	—	—	1	—	—	1	—	—	—	—	4	—	—	7	—	—
Tabes dorsalis	7	—	—	—	1	4	2	—	—	—	—	—	4	16	14	—	—
General paralysis of insane	9	—	—	1	2	1	5	—	—	—	—	4	7	4	35	—	—
Aneurysm	15	—	—	—	3	10	—	2	—	—	—	—	11	41	—	52	—
Cancer, all sites	215	—	—	3	9	51	78	40	34	—	—	12	34	207	549	1042	1133
Skin	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	52	—
Lip	3	—	—	—	—	—	1	—	2	—	—	—	—	—	7	—	67
Tongue	8	—	—	—	1	3	2	2	—	—	—	—	4	12	14	52	—
Œsophagus	24	—	—	—	—	5	10	4	5	—	—	—	—	20	70	104	167
Stomach	47	—	—	—	1	10	21	10	5	—	—	—	4	41	148	261	167
Other sites	131	—	—	3	7	33	44	22	22	—	—	12	26	134	310	573	733
Chronic rheumatism, etc., Gout	9	—	—	—	—	—	2	3	4	—	—	—	—	—	14	78	133
Diabetes	10	—	1	1	—	—	4	3	1	—	11	4	—	—	28	78	33
Alcoholism	1	—	—	—	1	—	—	—	—	—	—	—	4	—	—	—	—
Cerebral hæmorrhage, etc.	92	—	—	—	3	15	24	19	31	—	—	—	11	61	169	495	1033
Other dis. of the nervous system	22	—	2	4	3	3	4	—	6	—	22	16	11	12	28	—	200
Valvular disease of heart	94	—	2	11	10	18	25	8	20	—	22	43	37	73	176	209	667
Other heart disease	110	1	—	4	9	18	27	21	30	18	—	16	34	73	190	547	1000
Arterio-sclerosis	53	—	—	—	3	5	5	11	29	—	—	—	11	20	35	287	967
Other dis. of circulatory system	7	—	—	—	1	1	4	—	1	—	—	—	4	4	28	—	33
Bronchitis	110	—	—	—	9	15	24	17	45	—	—	—	34	61	169	443	1500
Pneumonia	102	1	1	15	23	23	22	4	13	18	11	58	86	93	155	104	433
Chronic interstitial pneumonia	1	—	—	—	—	1	—	—	—	—	—	—	—	4	—	—	—
Other dis. of respiratory system	26	—	—	4	3	6	6	4	3	—	—	16	11	24	42	104	100
Ulcer of stomach	16	—	—	2	3	3	7	—	1	—	—	8	11	12	49	—	33
Ulcer of duodenum	8	—	—	—	4	1	3	—	—	—	—	—	15	4	21	—	—
Appendicitis	8	1	—	1	1	2	2	—	1	18	—	4	4	8	14	—	33
Hernia	6	—	—	—	—	2	—	—	4	—	—	—	—	8	—	—	133
Intestinal obstruction	8	—	—	—	1	1	2	2	2	—	—	—	4	4	14	52	67
Cirrhosis of liver	3	—	—	—	—	1	1	1	—	—	—	—	—	4	7	26	—
Other dis. of digestive system	23	—	—	3	3	5	2	2	8	—	—	12	11	20	14	52	267
Acute nephritis	8	—	1	—	2	3	2	—	—	—	11	—	7	12	14	—	—
Chronic nephritis	46	—	1	1	3	8	9	8	16	—	11	4	11	32	63	209	533
Diseases of the prostate	14	—	—	—	1	—	2	1	10	—	—	—	4	—	14	26	333
Other genito-urinary diseases	12	—	—	1	—	1	2	2	6	—	—	4	—	4	14	52	200
Old age	52	—	—	—	—	—	—	2	50	—	—	—	—	—	—	52	1667
Suicide	29	—	1	3	5	8	6	3	3	—	11	12	19	32	42	78	100
Accident	38	1	1	5	6	6	9	1	9	18	11	19	22	24	63	26	300
Other causes	58	2	1	7	8	13	14	7	6	—	—	—	—	—	—	—	—
All causes	1,440	14	35	102	179	273	319	177	341	257	379	397	671	1108	2245	4613	11367
Years of life (Census population × 3)	112,788	5,451	9,237	25,725	26,685	24,645	14,208	3,837	3,000								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	104	108	99	105	96	87	92	84								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 952

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 95

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* This group comprises the Warehousemen in the following Wholesale or Retail Distributive Industries :—Corn and other Cereals, Tea, Coffee Grocery and Provisions (Ind. Code Nos. 602–3, 609–611).

OCCUPATIONAL GROUP 162.—PACKERS (949).																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 163.—STATIONARY ENGINE AND CRANE DRIVERS (950).																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up
44	1	1	6	11	8	6	2	9	5	5	18	40	33	43	52	427	Influenza	126	—	4	13	18	22	36	14	19	—	17	24	30	42	112	160	268
250	17	29	43	60	56	40	2	3	84	153	130	218	231	290	52	142	Respiratory tuberculosis	279	16	40	64	56	66	32	3	2	93	174	118	93	127	99	34	28
15	2	3	4	2	3	1	—	—	10	16	12	7	12	7	—	—	Other tuberculosis	38	6	5	8	12	4	1	1	1	35	22	15	20	8	3	11	14
32	—	1	2	11	8	7	1	2	—	5	6	40	33	51	26	95	Syphilis, etc.	52	—	—	4	5	17	15	7	4	—	—	7	8	33	47	80	56
4	—	—	1	1	2	—	—	—	—	—	3	4	8	—	—	—	Syphilis	4	—	—	—	—	1	2	—	1	—	—	—	—	2	6	—	14
8	—	—	—	3	—	4	—	1	—	—	—	11	—	29	—	47	Tabes dorsalis	12	—	—	1	2	1	4	2	2	—	—	2	3	2	12	23	28
12	—	1	1	7	2	1	—	—	—	5	3	25	8	7	—	—	General paralysis of insane	17	—	—	3	3	8	1	2	—	—	—	6	5	15	3	23	—
8	—	—	—	—	4	2	1	1	—	—	—	—	16	14	26	47	Aneurysm	19	—	—	—	—	7	8	3	1	—	—	—	—	13	25	34	14
205	—	3	3	15	44	84	35	21	—	16	9	55	181	609	917	997	Cancer, all sites	490	—	1	9	21	102	161	88	108	—	4	17	35	196	500	1004	1522
6	—	—	—	1	1	1	2	1	—	—	—	4	4	7	52	47	Skin	27	—	1	2	—	7	5	4	8	—	4	4	—	13	16	46	113
3	—	—	—	—	—	3	—	—	—	—	—	—	—	22	—	—	Lip	4	—	—	—	—	—	1	1	2	—	—	—	—	—	3	11	28
11	—	—	—	—	2	6	2	1	—	—	—	—	8	43	52	47	Tongue	25	—	—	—	—	2	14	2	7	—	—	—	—	4	43	23	99
18	—	—	—	—	5	5	4	4	—	—	—	—	21	36	105	190	Œsophagus	27	—	—	—	—	8	11	5	3	—	—	—	—	15	34	57	42
43	—	—	—	9	7	14	8	5	—	—	—	33	29	101	210	237	Stomach	135	—	—	2	5	38	38	31	21	—	—	4	8	73	118	354	296
124	—	3	3	5	29	55	19	10	—	16	9	18	119	399	498	475	Other sites	272	—	—	5	16	47	92	45	67	—	—	9	26	90	286	514	944
9	—	—	1	—	2	3	—	3	—	—	3	—	8	22	—	142	Chronic rheumatism, etc., Gout	13	—	—	—	—	—	3	2	8	—	—	—	—	—	9	23	113
9	—	—	—	—	2	2	2	3	—	—	—	—	8	14	52	142	Diabetes	52	—	1	5	6	5	13	12	10	—	4	9	10	10	40	137	141
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	1	—	—	—	—	1	—	—	—	—	—	—	—	2	—	—	—
84	—	—	1	1	12	25	22	23	—	—	3	4	49	181	577	1092	Cerebral hæmorrhage, etc.	310	—	1	3	10	20	73	71	132	—	4	6	17	38	227	810	1860
42	3	3	5	10	7	9	2	3	15	16	15	36	29	65	52	142	Other dis. of the nervous system	84	2	3	5	9	16	22	7	20	12	13	9	15	31	68	80	282
94	2	3	8	10	17	22	15	17	10	16	24	36	70	159	393	807	Valvular disease of heart	266	1	3	12	23	47	86	33	61	6	13	22	38	90	267	377	860
108	3	2	10	16	17	19	15	26	15	11	30	58	70	138	393	1235	Other heart disease	267	6	3	8	13	21	64	47	105	35	13	15	22	40	199	536	1480
53	—	—	—	2	4	21	9	17	—	—	—	7	16	152	236	807	Arterio-sclerosis	149	—	—	1	1	5	21	21	100	—	—	2	2	10	65	240	1409
4	—	—	—	—	—	1	2	1	—	—	—	—	—	7	52	47	Other dis. of circulatory system	9	—	—	—	—	1	1	3	4	—	—	—	—	2	3	34	56
131	1	1	4	8	23	32	18	44	5	5	12	29	95	232	472	2089	Bronchitis	296	—	—	3	11	21	54	41	166	—	—	6	18	40	168	468	2340
140	8	8	14	32	33	21	11	13	40	42	42	116	136	152	288	617	Pneumonia	201	4	6	19	27	42	45	25	33	23	26	35	45	81	140	285	465
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	11	—
19	—	—	3	3	5	4	1	3	—	—	9	11	21	29	26	142	Other dis. of respiratory system	37	—	—	—	6	10	6	9	6	—	—	—	10	19	19	103	85
17	1	1	—	7	2	3	2	1	5	5	—	25	8	22	52	47	Ulcer of stomach	26	—	—	3	8	6	4	4	1	—	—	6	13	12	12	46	14
6	—	1	—	1	3	1	—	—	—	5	—	4	12	7	—	—	Ulcer of duodenum	14	—	—	1	5	5	2	—	1	—	—	2	8	10	6	—	14
14	2	3	1	2	3	2	1	—	10	16	3	7	12	14	26	—	Appendicitis	27	4	—	4	7	3	7	—	2	23	—	7	12	6	22	—	28
6	—	—	—	—	1	3	2	—	—	—	—	—	4	22	52	—	Hernia	27	—	—	—	1	5	6	2	13	—	—	—	2	10	19	23	183
8	—	1	—	—	1	4	1	1	—	5	—	—	4	29	26	47	Intestinal obstruction	10	—	1	—	—	—	2	5	2	—	4	—	—	—	6	57	28
11	—	—	—	1	3	6	—	1	—	—	—	4	12	43	—	47	Cirrhosis of liver	12	—	—	—	1	2	6	2	1	—	—	—	2	4	19	23	14
26	1	—	—	3	5	9	3	5	5	—	—	11	21	65	79	237	Other dis. of digestive system	64	—	—	4	6	6	18	7	23	—	—	7	10	12	56	80	324
5	2	—	—	1	1	1	—	—	10	—	—	4	4	7	—	—	Acute nephritis	19	—	—	2	4	5	6	1	1	—	—	4	7	10	19	11	14
51	—	1	1	9	10	16	4	10	—	5	3	33	41	116	105	475	Chronic nephritis	115	—	1	5	9	18	36	20	26	—	4	9	15	35	112	228	366
10	—	—	—	—	—	5	1	4	—	—	—	—	—	36	26	190	Diseases of the prostate	32	—	—	—	1	—	5	5	21	—	—	—	2	—	16	57	296
15	—	—	—	1	3	7	3	1	—	—	—	4	12	51	79	47	Other genito-urinary diseases	36	—	—	—	3	7	6	7	13	—	—	—	5	13	19	80	183
39	—	—	—	—	—	—	5	34	—	—	—	—	—	—	131	1614	Old age	233	—	—	—	—	1	1	10	221	—	—	—	—	2	3	114	3115
28	—	1	4	3	8	11	—	1	—	5	12	11	33	80	—	47	Suicide	44	—	—	6	7	12	16	1	2	—	—	11	12	23	50	11	28
52	3	4	10	5	10	7	5	8	15	21	30	18	41	51	131	380	Accident	181	12	17	19	30	32	36	13	22	70	74	35	50	61	112	148	310
61	8	9	6	3	11	14	2	8	—	—	—	—	—	—	—	—	Other causes	160	4	4	15	15	26	40	23	33	—	—	—	—	—	—	—	—
1,588	54	75	126	217	302	386	166	262	268	396	381	789	1243	2797	4350	12441	All causes	3,671	55	90	213	315	528	824	485	1,161	319	392	394	521	1014	2560	5535	16364
143,682	20,184	18,927	33,069	27,489	24,291	13,800	3,816	2,106									Years of life (Census population × 3)	254,940	17,262	22,977	54,129	60,450	52,074	32,190	8,763	7,095								
—	109	113	95	123	108	109	87	92									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	129	111	99	82	88	100	111	120								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,097
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	109

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	937
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	93

OCCUPATIONAL GROUP 164.—GENERAL AND UNDEFINED LABOURERS (970, 971).

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	
1,422	19	32	119	151	241	314	209	337	12	13	28	36	56	104	201	415	Influenza
5,038	203	479	879	1,162	1,221	786	196	112	124	196	206	276	286	260	188	138	Respiratory tuberculosis
402	61	55	72	63	53	58	21	19	37	22	17	15	12	19	20	23	Other tuberculosis
902	2	8	48	219	307	219	59	40	1	3	11	52	72	73	57	49	Syphilis, etc.
143	2	5	10	29	45	32	9	11	1	2	2	7	11	11	9	14	Syphilis
159	—	—	5	30	45	48	19	12	—	—	1	7	11	16	18	15	Tabes dorsalis
397	—	2	31	135	139	73	13	4	—	1	7	32	33	24	12	5	General paralysis of insane
203	—	1	2	25	78	66	18	13	—	—	—	6	18	22	17	16	Aneurysm
5,781	7	14	59	239	997	2,044	1,033	1,388	4	6	14	57	233	677	993	1708	Cancer, all sites
261	—	—	2	13	40	55	44	107	—	—	—	3	9	18	42	132	Skin
114	—	—	1	—	7	26	23	57	—	—	—	—	2	9	22	70	Lip
446	—	—	—	16	82	174	78	96	—	—	—	4	19	58	75	118	Tongue
428	—	1	1	12	78	189	77	70	—	—	—	3	18	63	74	86	Œsophagus
1,317	—	4	17	60	251	483	210	292	—	2	4	14	59	160	202	359	Stomach
3,215	7	9	38	138	539	1,117	601	766	4	4	9	33	126	370	578	943	Other sites
233	—	—	6	3	29	51	50	94	—	—	1	1	7	17	48	116	Chronic rheumatism, etc., Gout
238	8	14	29	28	52	40	27	40	5	6	7	7	12	13	26	49	Diabetes
24	—	—	1	5	5	9	2	2	—	—	—	1	1	3	2	2	Alcoholism
3,092	1	5	24	66	292	686	590	1,428	1	2	6	16	68	227	567	1757	Cerebral hæmorrhage, etc.
1,337	48	71	147	167	227	273	160	244	29	29	34	40	53	90	154	300	Other dis. of the nervous system
3,061	31	58	165	248	492	745	495	827	19	24	39	59	115	247	476	1018	Valvular disease of heart
3,701	20	38	115	176	388	814	645	1,505	12	16	27	42	91	270	620	1852	Other heart disease
2,283	—	—	2	18	125	381	451	1,306	—	—	—	4	29	126	433	1607	Arterio-sclerosis
94	1	3	2	13	16	24	14	21	1	1	—	3	4	8	13	26	Other dis. of circulatory system
5,000	5	12	54	197	517	1,017	937	2,261	3	5	13	47	121	337	901	2782	Bronchitis
3,580	55	110	276	507	737	896	431	568	34	45	65	120	173	297	414	699	Pneumonia
30	—	—	—	4	8	12	5	1	—	—	—	1	2	4	5	1	Chronic interstitial pneumonia
668	8	15	30	70	129	169	84	163	5	6	7	17	30	56	81	201	Other dis. of respiratory system
291	6	4	26	65	83	62	25	20	4	2	6	15	19	21	24	25	Ulcer of stomach
136	2	7	22	33	36	26	5	5	1	3	5	8	8	9	5	6	Ulcer of duodenum
155	22	25	19	22	34	24	6	3	13	10	4	5	8	8	6	4	Appendicitis
193	1	1	5	10	30	43	33	70	1	—	1	2	7	14	32	86	Hernia
192	5	5	11	21	35	42	25	48	3	2	3	5	8	14	24	59	Intestinal obstruction
274	—	—	6	19	65	94	55	35	—	—	1	5	15	31	53	43	Cirrhosis of liver
663	15	18	40	49	106	155	87	193	9	7	9	12	25	51	84	237	Other dis. of digestive system
130	5	7	13	24	20	30	12	19	3	3	3	6	5	10	12	23	Acute nephritis
1,372	7	17	47	111	247	378	234	331	4	7	11	26	58	125	225	407	Chronic nephritis
411	1	—	—	1	6	74	77	252	1	—	—	—	1	25	74	310	Diseases of the prostate
438	—	3	17	31	65	109	69	144	—	1	4	7	15	36	66	177	Other genito-urinary diseases
3,404	—	—	—	—	3	79	203	3,119	—	—	—	—	1	26	195	3838	Old age
631	6	18	54	94	161	161	69	68	4	7	13	22	38	53	66	84	Suicide
1,459	81	108	157	185	282	280	126	240	49	44	37	44	66	93	121	295	Accident
1,679	68	66	111	168	294	378	214	380	—	—	—	—	—	—	—	—	Other causes
48,314	688	1,193	2,556	4,169	7,303	10,473	6,649	15,283	420	489	599	989	1710	3470	6391	18807	All causes
2,169,942	163,704	243,864	426,726	421,419	427,125	301,803	104,037	81,264									Years of life (Census population × 3)
—	170	139	150	155	148	135	128	138									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,438
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	143

OCCUPATIONAL GROUP 7a.—COAL MINE—HEWERS AND GETTERS (042).

(Northumberland.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	37	—	3	8	8	4	7	3	4	—	36	36	46	32	130	201	176
Respiratory tuberculosis	57	1	3	15	17	12	9	—	—	55	36	67	97	97	167	—	—
Other tuberculosis	6	—	1	2	2	—	1	—	—	—	12	9	11	—	19	—	—
Syphilis, etc.	16	—	—	3	3	5	3	2	—	—	—	13	17	40	56	134	—
Syphilis	2	—	—	—	—	2	—	—	—	—	—	—	—	16	—	—	—
Tabes dorsalis	2	—	—	—	1	—	1	—	—	—	—	—	6	—	19	—	—
General paralysis of insane	8	—	—	3	1	—	2	2	—	—	—	13	6	—	37	134	—
Aneurysm	4	—	—	—	1	3	—	—	—	—	—	—	6	24	—	—	—
Cancer, all sites	75	—	—	4	3	16	31	9	12	—	—	18	17	129	575	604	528
Skin	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	44
Lip	3	—	—	—	—	—	3	—	—	—	—	—	—	—	56	—	—
Tongue	4	—	—	—	—	2	—	1	1	—	—	—	—	16	—	67	44
Œsophagus	2	—	—	—	—	—	2	—	—	—	—	—	—	—	37	—	—
Stomach	25	—	—	1	—	6	10	3	5	—	—	4	—	48	185	201	220
Other sites	40	—	—	3	3	8	16	5	5	—	—	13	17	65	297	335	220
Chronic rheumatism, etc., Gout	1	—	—	—	1	—	—	—	—	—	—	—	6	—	—	—	—
Diabetes	4	—	—	1	1	1	—	—	1	—	—	4	6	8	—	—	44
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	50	—	—	—	—	3	5	9	33	—	—	—	—	24	93	604	1451
Other dis. of the nervous system	18	—	—	1	1	3	8	1	4	—	—	4	6	24	148	67	176
Valvular disease of heart	45	—	—	3	6	5	12	8	11	—	—	13	34	40	223	537	484
Other heart disease	33	—	—	5	4	3	2	5	14	—	—	22	23	24	37	335	616
Arterio-sclerosis	24	—	—	—	1	1	2	6	14	—	—	—	6	8	37	402	616
Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—
Bronchitis	53	—	—	—	3	5	12	6	27	—	—	—	17	40	223	402	1187
Pneumonia	47	—	4	8	13	7	8	4	3	—	48	36	74	57	148	268	132
Chronic interstitial pneumonia	1	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—	—
Other dis. of respiratory system	12	—	—	2	2	1	3	1	3	—	—	9	11	8	56	67	132
Ulcer of stomach	5	—	—	—	2	2	—	—	1	—	—	—	11	16	—	—	44
Ulcer of duodenum	3	—	—	—	2	1	—	—	—	—	—	—	11	8	—	—	—
Appendicitis	2	—	1	1	—	—	—	—	—	—	12	4	—	—	—	—	—
Hernia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	67	—
Intestinal obstruction	3	—	—	—	—	2	—	—	1	—	—	—	—	16	—	—	44
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	9	—	—	2	1	2	1	—	3	—	—	9	6	16	19	—	132
Acute nephritis	4	—	1	2	—	1	—	—	—	—	12	9	—	8	—	—	—
Chronic nephritis	22	—	—	3	1	2	6	4	6	—	—	13	6	16	111	268	264
Diseases of the prostate	7	—	—	—	—	1	1	—	5	—	—	—	—	8	19	—	220
Other genito-urinary diseases	4	—	—	1	—	—	1	—	2	—	—	4	—	—	19	—	88
Old age	62	—	—	—	—	—	—	3	59	—	—	—	—	—	—	201	2595
Suicide	16	—	2	1	3	4	2	2	2	—	24	4	17	32	37	134	88
Accident	65	1	5	20	11	13	7	3	5	55	60	89	63	105	130	201	220
Other causes	25	—	1	3	6	1	7	4	3	—	—	—	—	—	—	—	—
All causes	708	2	21	85	91	96	129	71	213	111	252	379	518	775	2393	4762	9367
Years of life (Census population × 3)	71,700	1,806	8,346	22,449	17,562	12,381	5,391	1,491	2,274								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	45	72	95	81	67	93	95	69								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	830
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	82

OCCUPATIONAL GROUP 7b.—COAL MINE—HEWERS AND GETTERS (042).
(Durham.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	84	1	6	20	12	12	17	6	10	20	29	31	25	35	123	181	174
Respiratory tuberculosis ..	150	2	16	57	34	28	10	3	—	39	77	87	70	82	72	90	—
Other tuberculosis	19	—	—	12	2	2	1	1	1	—	—	18	4	6	7	30	17
Syphilis, etc.	34	—	—	3	9	11	9	1	1	—	—	5	19	32	65	30	17
Syphilis	3	—	—	—	2	—	—	—	1	—	—	—	4	—	—	—	17
Tabes dorsalis	7	—	—	—	—	3	3	1	—	—	—	—	—	9	22	30	—
General paralysis of insane ..	20	—	—	3	7	6	4	—	—	—	—	5	14	18	29	—	—
Aneurysm	4	—	—	—	—	2	2	—	—	—	—	—	—	6	14	—	—
Cancer, all sites	168	—	1	6	23	40	47	23	28	—	5	9	47	117	340	694	488
Skin	6	—	—	—	—	1	—	3	2	—	—	—	—	3	—	90	35
Lip	3	—	—	—	—	—	1	—	2	—	—	—	—	—	7	—	35
Tongue	4	—	—	—	—	1	2	—	1	—	—	—	—	3	14	—	17
Œsophagus	4	—	—	—	—	3	—	1	—	—	—	—	—	9	—	30	—
Stomach	59	—	1	2	6	17	18	8	7	—	5	3	12	50	130	241	122
Other sites	92	—	—	4	17	18	26	11	16	—	—	6	35	53	188	332	279
Chronic rheumatism, etc., Gout	8	—	—	—	—	—	4	3	1	—	—	—	—	—	29	90	17
Diabetes	10	—	—	1	3	4	2	—	—	—	—	2	6	12	14	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	159	—	—	1	4	17	32	38	67	—	—	2	8	50	232	1146	1167
Other dis. of the nervous system	51	—	3	7	11	12	8	5	5	—	14	11	23	35	58	151	87
Valvular disease of heart ..	103	—	—	14	13	17	27	9	23	—	—	21	27	50	195	271	401
Other heart disease	96	—	1	9	20	9	20	12	25	—	5	14	41	26	145	362	435
Arterio-sclerosis	102	—	—	—	1	4	13	18	66	—	—	—	2	12	94	543	1149
Other dis. of circulatory system	6	—	1	2	—	1	1	—	1	—	5	3	—	3	7	—	17
Bronchitis..	153	—	—	1	3	12	26	28	83	—	—	2	6	35	188	845	1445
Pneumonia	133	—	2	29	31	33	16	8	14	—	10	44	64	97	116	241	244
Chronic interstitial pneumonia ..	1	—	—	—	—	1	—	—	—	—	—	—	—	3	—	—	—
Other dis. of respiratory system	22	—	—	1	3	4	3	3	8	—	—	2	6	12	22	90	139
Ulcer of stomach	5	—	—	2	—	2	1	—	—	—	—	3	—	6	7	—	—
Ulcer of duodenum	13	—	—	3	3	4	3	—	—	—	—	5	6	12	22	—	—
Appendicitis	9	1	1	2	1	3	1	—	—	20	5	3	2	9	7	—	—
Hernia	3	—	—	1	—	1	—	—	1	—	—	2	—	3	—	—	17
Intestinal obstruction	9	1	—	2	—	2	1	1	2	20	—	3	—	6	7	30	35
Cirrhosis of liver	7	—	—	—	—	2	2	2	1	—	—	—	—	6	14	60	17
Other dis. of digestive system ..	26	—	1	3	4	7	2	—	9	—	5	5	8	21	14	—	157
Acute nephritis	6	—	1	3	—	1	—	—	1	—	5	5	—	3	—	—	17
Chronic nephritis..	35	—	—	3	2	5	16	2	7	—	—	5	4	15	116	60	122
Diseases of the prostate ..	11	—	—	—	—	—	2	3	6	—	—	—	—	—	14	90	104
Other genito-urinary diseases ..	14	—	—	—	2	6	4	—	2	—	—	—	4	18	29	—	35
Old age	116	—	—	—	—	—	1	6	109	—	—	—	—	—	7	181	1898
Suicide	29	1	—	4	7	7	6	2	2	20	—	6	14	21	43	60	35
Accident	163	1	24	45	35	26	20	2	10	20	115	69	72	76	145	60	174
Other causes	81	—	7	14	17	15	15	5	8	—	—	—	—	—	—	—	—
All causes	1,826	7	64	245	240	288	310	181	491	137	308	376	495	843	2243	5460	8551
Years of life (Census population × 3)	196,707	5,109	20,808	65,226	48,528	34,161	13,818	3,315	5,742								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	55	88	94	77	73	87	109	63								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 824
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 82

OCCUPATIONAL GROUP 7c.—COAL MINE—HEWERS AND GETTERS (042).
(Cheshire and Lancashire.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	57	—	1	10	9	5	16	6	10	—	6	23	23	17	115	171	292
Respiratory tuberculosis ..	228	3	23	38	73	47	30	10	4	51	133	86	185	160	216	285	117
Other tuberculosis	10	—	1	4	2	—	3	—	—	—	6	9	5	—	22	—	—
Syphilis, etc.	28	—	—	1	6	9	10	1	1	—	—	2	15	31	72	28	29
Syphilis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	7	—	—
Tabes dorsalis	7	—	—	—	1	2	4	—	—	—	—	—	3	7	29	—	—
General paralysis of insane ..	14	—	—	1	4	5	2	1	1	—	—	2	10	17	14	28	29
Aneurysm	6	—	—	—	1	2	3	—	—	—	—	—	3	7	22	—	—
Cancer, all sites	204	—	—	3	19	36	70	33	43	—	—	7	48	123	504	939	1257
Skin	13	—	—	—	1	4	2	3	3	—	—	—	3	14	14	85	88
Lip	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	29
Tongue	10	—	—	—	—	3	4	2	1	—	—	—	—	10	29	57	29
Œsophagus	6	—	—	—	—	1	2	1	2	—	—	—	—	3	14	28	58
Stomach	68	—	—	1	10	8	26	12	11	—	—	2	25	27	187	342	322
Other sites	106	—	—	2	8	20	36	15	25	—	—	5	20	68	259	427	731
Chronic rheumatism, etc., Gout	8	—	—	—	—	1	3	2	2	—	—	—	—	3	22	57	58
Diabetes	9	—	—	—	1	3	—	4	1	—	—	—	3	10	—	114	29
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	162	—	—	3	2	15	36	37	69	—	—	7	5	51	259	1053	2018
Other dis. of the nervous system	60	—	—	5	6	10	14	9	16	—	—	11	15	34	101	256	468
Valvular disease of heart ..	132	—	4	9	11	18	30	24	36	—	23	20	28	61	216	683	1053
Other heart disease	142	—	—	4	8	16	28	30	56	—	—	9	20	55	202	854	1637
Arterio-sclerosis	134	—	—	—	1	6	29	26	72	—	—	—	3	20	209	740	2105
Other dis. of circulatory system	2	—	—	—	1	1	—	—	—	—	—	—	3	3	—	—	—
Bronchitis..	335	—	1	4	8	21	67	67	167	—	6	9	20	72	483	1907	4883
Pneumonia	174	2	11	25	26	45	27	13	25	34	64	57	66	154	195	370	731
Chronic interstitial pneumonia ..	3	—	—	—	1	—	1	1	—	—	—	—	3	—	7	28	—
Other dis. of respiratory system	25	—	—	2	1	4	11	1	6	—	—	5	3	14	79	28	175
Ulcer of stomach	9	—	—	—	5	—	2	2	—	—	—	—	13	—	14	57	—
Ulcer of duodenum	5	—	2	3	—	—	—	—	—	—	12	7	—	—	—	—	—
Appendicitis	8	—	2	2	2	1	1	—	—	—	12	5	5	3	7	—	—
Hernia	10	—	—	1	1	2	2	1	3	—	—	2	3	7	14	28	88
Intestinal obstruction	9	—	1	—	1	1	3	2	1	—	6	—	3	3	22	57	29
Cirrhosis of liver	11	—	—	—	—	2	5	1	3	—	—	—	—	7	36	28	88
Other dis. of digestive system ..	38	—	1	4	4	6	10	3	10	—	6	9	10	20	72	85	292
Acute nephritis	4	—	1	1	1	—	1	—	—	—	6	2	3	—	7	—	—
Chronic nephritis..	49	—	—	4	11	8	9	7	10	—	—	9	28	27	65	199	292
Diseases of the prostate ..	17	—	—	—	—	—	3	2	12	—	—	—	—	—	22	57	351
Other genito-urinary diseases ..	13	—	—	—	—	2	5	2	4	—	—	—	—	7	36	57	117
Old age	157	—	—	—	—	2	4	4	147	—	—	—	—	7	29	114	4298
Suicide	50	—	3	3	11	8	15	5	5	—	17	7	28	27	108	142	146
Accident	134	3	7	28	34	27	22	6	7	51	41	64	86	92	159	171	205
Other causes	94	—	3	11	14	24	16	8	18	—	—	—	—	—	—	—	—
All causes	2,321	8	61	165	259	320	473	307	728	136	353	376	657	1092	3408	8739	21287
Years of life (Census population × 3)	156,606	5,883	17,268	43,938	39,408	29,298	13,878	3,513	3,420								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	55	100	94	103	94	133	175	157								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,109
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 108

OCCUPATIONAL GROUP 7d.—COAL MINE—HEWERS AND GETTERS (042).
(Yorkshire, West Riding.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	87	—	2	13	18	19	11	6	18	—	6	18	28	42	58	134	441
Respiratory tuberculosis	300	2	31	66	90	68	28	11	4	23	96	90	138	152	149	245	98
Other tuberculosis	26	1	6	4	5	7	3	—	—	11	19	5	8	16	16	—	—
Syphilis, etc.	50	—	—	1	17	16	11	5	—	—	—	1	26	36	58	111	—
Syphilis	2	—	—	—	1	1	—	—	—	—	—	—	2	2	—	—	—
Tabes dorsalis	9	—	—	—	1	5	2	1	—	—	—	—	2	11	11	22	—
General paralysis of insane	28	—	—	1	14	6	5	2	—	—	—	1	21	13	27	45	—
Aneurysm	11	—	—	—	1	4	4	2	—	—	—	—	2	9	21	45	—
Cancer, all sites	256	—	3	8	19	71	68	37	50	—	9	11	29	158	361	823	1225
Skin	10	—	—	—	—	3	3	2	2	—	—	—	—	7	16	45	49
Lip	3	—	—	—	—	—	2	1	—	—	—	—	—	—	11	22	—
Tongue	14	—	—	—	1	8	4	1	—	—	—	—	2	18	21	22	—
Œsophagus	11	—	—	—	1	3	5	1	1	—	—	—	2	7	27	22	25
Stomach	67	—	—	3	8	20	22	4	10	—	—	4	12	45	117	89	245
Other sites	151	—	3	5	9	37	32	28	37	—	9	7	14	82	170	623	907
Chronic rheumatism, etc., Gout	5	—	—	—	1	2	1	—	1	—	—	—	2	4	5	—	25
Diabetes	20	—	—	4	6	3	2	3	2	—	—	5	9	7	11	67	49
Alcoholism	1	—	—	1	—	—	—	—	—	—	—	1	—	—	—	—	—
Cerebral hæmorrhage, etc.	232	—	1	1	5	21	46	47	111	—	3	1	8	47	244	1046	2721
Other dis. of the nervous system	75	1	6	11	16	13	11	7	10	11	19	15	25	29	58	156	245
Valvular disease of heart	167	—	2	9	22	35	40	24	35	—	6	12	34	78	212	534	858
Other heart disease	151	—	1	10	11	18	38	28	45	—	3	14	17	40	202	623	1103
Arterio-sclerosis	112	—	—	—	—	4	23	19	66	—	—	—	—	9	122	423	1618
Other dis. of circulatory system	1	—	1	—	—	—	—	—	—	—	3	—	—	—	—	—	—
Bronchitis	312	—	—	2	5	24	54	61	166	—	—	3	8	54	286	1357	4069
Pneumonia	214	2	10	35	67	44	31	11	14	23	31	48	103	98	164	245	343
Chronic interstitial pneumonia	13	—	—	—	1	6	3	1	2	—	—	—	2	13	16	22	49
Other dis. of respiratory system	34	—	—	1	4	5	10	3	11	—	—	1	6	11	53	67	270
Ulcer of stomach	10	—	—	3	1	1	4	1	—	—	—	4	2	2	21	22	—
Ulcer of duodenum	10	—	1	—	6	2	—	1	—	—	3	—	9	4	—	22	—
Appendicitis	27	—	4	8	7	2	3	1	2	—	12	11	11	4	16	22	49
Hernia	8	—	—	—	—	5	—	3	—	—	—	—	—	11	—	67	—
Intestinal obstruction	10	—	1	—	3	1	3	1	1	—	3	—	5	2	16	22	25
Cirrhosis of liver	12	—	—	1	1	2	3	4	1	—	—	1	2	4	16	89	25
Other dis. of digestive system	40	—	1	2	1	6	11	2	17	—	3	3	2	13	58	45	417
Acute nephritis	11	—	3	1	2	2	2	—	1	—	9	1	3	4	11	—	25
Chronic nephritis	79	—	2	6	4	11	22	15	19	—	6	8	6	25	117	334	466
Diseases of the prostate	14	—	—	—	—	—	4	4	6	—	—	—	—	—	21	89	147
Other genito-urinary diseases	17	—	—	1	2	1	3	3	7	—	—	1	3	2	16	67	172
Old age	151	—	—	—	—	—	1	7	143	—	—	—	—	—	5	156	3505
Suicide	50	—	3	3	13	16	10	2	3	—	9	4	20	36	53	45	74
Accident	249	5	24	68	68	41	26	5	12	57	74	93	104	91	138	111	294
Other causes	116	1	9	16	27	29	17	9	8	—	—	—	—	—	—	—	—
All causes	2,860	12	111	275	422	475	489	321	755	138	344	376	647	1059	2593	7143	18505
Years of life (Census population × 3)	251,598	8,700	32,244	73,119	65,247	44,859	18,855	4,494	4,080								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	56	98	94	101	92	101	143	136								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	975
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	97

OCCUPATIONAL GROUP 7e.—COAL MINE—HEWERS AND GETTERS (042).
(Nottinghamshire.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000 16—	20—	25—	35—	45—	55—	65—	70 and up
Influenza	14	—	2	2	4	1	4	1	—	—	13	7	20	7	67	62	—
Respiratory tuberculosis	67	—	11	15	22	12	7	—	—	—	74	56	109	88	118	—	—
Other tuberculosis	5	—	—	1	3	1	—	—	—	—	—	4	15	7	—	—	—
Syphilis, etc.	20	—	—	2	6	7	3	2	—	—	—	7	30	52	51	123	—
Syphilis	1	—	—	—	—	1	—	—	—	—	—	—	—	7	—	—	—
Tabes dorsalis	3	—	—	—	—	2	—	1	—	—	—	—	—	15	—	62	—
General paralysis of insane	14	—	—	2	6	4	2	—	—	—	—	7	30	29	34	—	—
Aneurysm	2	—	—	—	—	—	1	1	—	—	—	—	—	—	17	62	—
Cancer, all sites	71	—	—	1	9	16	22	13	10	—	—	4	45	118	371	800	580
Skin	3	—	—	—	—	1	1	—	1	—	—	—	—	7	17	—	58
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	2	—	—	—	—	1	—	—	1	—	—	—	—	7	—	—	58
Stomach	16	—	—	1	1	1	6	5	2	—	—	4	5	7	101	308	116
Other sites	50	—	—	—	8	13	15	8	6	—	—	—	40	96	253	492	348
Chronic rheumatism, etc., Gout	3	—	—	—	—	—	3	—	—	—	—	—	—	—	51	—	—
Diabetes	4	—	—	2	—	1	—	1	—	—	—	7	—	7	—	62	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	42	—	—	—	5	3	9	8	17	—	—	—	25	22	152	492	986
Other dis. of the nervous system	21	—	1	5	2	9	2	2	—	—	7	19	10	66	34	123	—
Valvular disease of heart	27	—	—	2	4	7	6	5	3	—	—	7	20	52	101	308	174
Other heart disease	55	—	1	4	2	7	14	9	18	—	7	15	10	52	236	554	1044
Arterio-sclerosis	30	—	—	—	—	2	6	8	14	—	—	—	—	15	101	492	814
Other dis. of circulatory system	3	—	—	2	1	—	—	—	—	—	—	7	5	—	—	—	—
Bronchitis	73	1	—	4	—	5	16	9	38	23	—	15	—	37	269	554	2203
Pneumonia	54	1	4	5	8	11	9	7	9	23	27	19	40	81	152	431	522
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	17	—	1	1	1	1	5	—	8	—	7	4	5	7	84	—	464
Ulcer of stomach	7	—	—	1	2	4	—	—	—	—	—	4	10	29	—	—	—
Ulcer of duodenum	3	—	—	1	—	2	—	—	—	—	—	4	—	15	—	—	—
Appendicitis	6	—	—	1	2	—	3	—	—	—	—	4	10	—	51	—	—
Hernia	4	—	—	—	—	2	—	1	1	—	—	—	—	15	—	62	58
Intestinal obstruction	4	—	1	—	1	—	1	—	1	—	7	—	5	—	17	—	58
Cirrhosis of liver	1	—	—	—	—	—	1	—	—	—	—	—	—	—	17	—	—
Other dis. of digestive system	8	—	—	—	1	2	1	—	4	—	—	—	5	15	17	—	232
Acute nephritis	2	—	—	—	2	—	—	—	—	—	—	—	10	—	—	—	—
Chronic nephritis	15	—	1	—	3	2	4	1	4	—	7	—	15	15	67	62	232
Diseases of the prostate	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	116
Other genito-urinary diseases	7	—	—	—	2	3	—	—	2	—	—	—	10	22	—	—	116
Old age	29	—	—	—	—	—	—	2	27	—	—	—	—	—	—	123	1566
Suicide	22	—	1	2	4	4	6	4	1	—	7	7	20	29	101	246	58
Accident	76	—	9	18	16	15	8	1	9	—	60	67	80	110	135	62	522
Other causes	39	—	3	8	2	10	10	2	4	—	—	—	—	—	—	—	—
All causes	731	2	35	77	102	127	140	76	172	46	235	288	507	935	2358	4674	9971
Years of life (Census population × 3)	88,929	4,323	14,904	26,724	20,106	13,584	5,937	1,626	1,725								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	19	67	72	79	81	92	94	73								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	831
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	81

OCCUPATIONAL GROUP 7f.—COAL MINE—HEWERS AND GETTERS (042).
(Derbyshire, excluding the South Derbyshire Coalfield.*)

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	
20	1	1	3	1	4	2	1	7	19	6	10	4	26	28	49	374	Influenza .. ..
59	2	3	22	13	13	5	1	—	37	17	72	58	83	70	49	—	Respiratory tuberculosis ..
12	—	2	7	2	—	1	—	—	—	11	23	9	—	14	—	—	Other tuberculosis .. ..
20	—	—	1	6	8	3	—	2	—	—	3	27	51	42	—	107	Syphilis, etc. .. .. ..
2	—	—	1	1	—	—	—	—	—	—	3	4	—	—	—	—	Syphilis .. ..
3	—	—	—	1	—	1	—	1	—	—	—	4	—	14	—	53	Tabes dorsalis .. .. ..
10	—	—	—	3	6	1	—	—	—	—	—	13	38	14	—	—	General paralysis of insane ..
5	—	—	—	1	2	1	—	1	—	—	—	4	13	14	—	53	Aneurysm .. .. ..
91	—	2	—	8	15	25	20	21	—	11	—	36	96	352	986	1122	Cancer, all sites .. .. ..
4	—	—	—	1	—	—	1	2	—	—	—	4	—	—	49	107	Skin .. ..
1	—	—	—	—	—	1	—	—	—	—	—	—	—	14	—	—	Lip .. ..
2	—	—	—	—	2	—	—	—	—	—	—	—	13	—	—	—	Tongue .. ..
2	—	—	—	—	—	2	—	—	—	—	—	—	—	28	—	—	Œsophagus .. .. ..
32	—	1	—	1	4	9	9	8	—	6	—	4	26	127	444	427	Stomach .. .. ..
50	—	1	—	6	9	13	10	11	—	6	—	27	58	183	493	588	Other sites .. .. ..
2	—	—	—	—	—	2	—	—	—	—	—	—	—	28	—	—	Chronic rheumatism, etc., Gout
7	—	2	1	2	1	—	—	1	—	11	3	9	6	—	—	53	Diabetes .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism .. .. ..
69	—	—	—	2	5	10	7	45	—	—	—	9	32	141	345	2404	Cerebral hæmorrhage, etc. ..
26	—	—	4	3	5	8	2	4	—	—	13	13	32	113	99	214	Other dis. of the nervous system
49	—	1	6	6	9	8	6	13	—	6	20	27	58	113	296	694	Valvular disease of heart ..
82	—	—	3	5	6	13	18	37	—	—	10	22	38	183	888	1976	Other heart disease .. ..
31	—	—	—	1	—	7	4	19	—	—	—	4	—	98	197	1015	Arterio-sclerosis .. .. ..
2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	99	—	Other dis. of circulatory system
95	—	—	2	3	10	21	16	43	—	—	7	13	64	295	789	2297	Bronchitis .. ..
57	1	2	7	10	11	11	7	8	19	11	23	45	70	155	345	427	Pneumonia .. .. ..
2	—	—	—	—	1	—	1	—	—	—	—	—	6	—	49	—	Chronic interstitial pneumonia ..
16	—	—	1	—	4	5	3	3	—	—	3	—	26	70	148	160	Other dis. of respiratory system
4	—	—	1	3	—	—	—	—	—	—	3	13	—	—	—	—	Ulcer of stomach .. ..
6	—	—	3	—	1	1	—	1	—	—	10	—	6	14	—	53	Ulcer of duodenum .. ..
7	—	2	3	1	1	—	—	—	—	11	10	4	6	—	—	—	Appendicitis .. .. ..
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	53	Hernia .. ..
7	—	2	—	2	—	2	—	1	—	11	—	9	—	28	—	53	Intestinal obstruction .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Cirrhosis of liver .. .. ..
25	1	4	1	1	2	6	4	6	19	22	3	4	13	84	197	321	Other dis. of digestive system ..
1	—	—	—	1	—	—	—	—	—	—	—	4	—	—	—	—	Acute nephritis .. .. ..
25	—	1	5	1	3	4	1	10	—	6	16	4	19	56	49	534	Chronic nephritis .. ..
7	—	—	1	—	—	—	1	5	—	—	3	—	—	—	49	267	Diseases of the prostate ..
7	—	—	—	1	1	2	1	2	—	—	—	4	6	28	49	107	Other genito-urinary diseases ..
86	—	—	—	—	—	—	3	83	—	—	—	—	—	—	148	4434	Old age .. ..
12	—	1	2	—	3	3	2	1	—	6	7	—	19	42	99	53	Suicide .. ..
94	3	13	15	29	17	5	4	8	56	72	49	129	109	70	197	427	Accident .. ..
47	—	—	5	7	18	7	5	5	—	—	—	—	—	—	—	—	Other causes .. .. ..
969	8	36	93	108	138	151	109	326	148	201	306	482	882	2125	5375	17415	All causes .. .. ..
102,837	5,394	17,937	30,423	22,422	15,654	7,107	2,028	1,872	Years of life (Census population × 3)								
—	60	57	77	75	76	83	108	128	Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	776
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	76

OCCUPATIONAL GROUP 7g.—COAL MINE—HEWERS AND GETTERS (042).
(The North Staffordshire Coalfield.†)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	20	—	1	2	2	5	1	5	4	—	10	12	17	67	34	585	392
Respiratory tuberculosis ..	47	—	7	12	16	7	2	2	1	—	73	71	139	93	69	234	98
Other tuberculosis	6	—	—	4	1	—	1	—	—	—	—	24	9	—	34	—	—
Syphilis, etc.	9	—	—	1	3	2	2	—	1	—	—	6	26	27	69	—	98
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	2	—	—	—	1	—	—	—	1	—	—	—	9	—	—	—	98
General paralysis of insane ..	6	—	—	1	2	2	1	—	—	—	—	6	17	27	34	—	—
Aneurysm	1	—	—	—	—	—	1	—	—	—	—	—	—	—	34	—	—
Cancer, all sites	41	—	—	1	5	10	16	6	3	—	—	6	43	133	549	702	294
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	1	—	—	—	—	—	—	—	13	—	—	—
Œsophagus	2	—	—	—	—	—	2	—	—	—	—	—	—	—	69	—	—
Stomach	11	—	—	—	2	—	6	1	2	—	—	—	17	—	206	117	196
Other sites	27	—	—	1	3	9	8	5	1	—	—	6	26	120	275	585	98
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	117	—
Diabetes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	28	—	—	—	—	2	6	5	15	—	—	—	—	27	206	585	1471
Other dis. of the nervous system	20	—	1	1	2	2	7	5	2	—	10	6	17	27	240	585	196
Valvular disease of heart ..	38	—	1	2	—	12	10	2	11	—	10	12	—	160	343	234	1079
Other heart disease	28	—	—	1	1	6	6	6	8	—	—	6	9	80	206	702	784
Arterio-sclerosis	22	—	—	—	—	—	4	3	15	—	—	—	—	—	137	351	1471
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	71	—	1	—	3	2	10	14	41	—	10	—	26	27	343	1638	4020
Pneumonia	47	1	6	11	8	8	8	3	2	35	63	65	69	106	275	351	196
Chronic interstitial pneumonia ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	8	—	—	1	1	2	—	1	3	—	—	6	9	27	—	117	294
Ulcer of stomach	1	—	—	—	—	1	—	—	—	—	—	—	—	13	—	—	—
Ulcer of duodenum	1	—	—	1	—	—	—	—	—	—	—	6	—	—	—	—	—
Appendicitis	1	—	1	—	—	—	—	—	—	—	10	—	—	—	—	—	—
Hernia	2	—	—	—	—	—	1	—	1	—	—	—	—	—	34	—	98
Intestinal obstruction	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	196
Cirrhosis of liver	8	—	—	—	—	3	2	1	2	—	—	—	—	40	69	117	196
Other dis. of digestive system ..	6	—	—	—	1	1	1	—	3	—	—	—	9	13	34	—	294
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	16	—	—	1	5	2	2	2	4	—	—	6	43	27	69	234	392
Diseases of the prostate ..	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	98
Other genito-urinary diseases ..	4	—	—	1	—	—	—	1	2	—	—	6	—	—	—	117	196
Old age	39	—	—	—	—	—	—	1	38	—	—	—	—	—	—	117	3725
Suicide	11	—	2	1	1	3	2	2	—	—	21	6	9	40	69	234	—
Accident	57	2	7	21	11	8	5	1	2	70	73	124	95	106	172	117	196
Other causes	23	—	3	6	4	2	3	—	5	—	—	—	—	—	—	—	—
All causes	558	3	30	67	64	78	89	61	166	105	313	394	555	1038	3055	7135	16275
Years of life (Census population × 3)	53,262	2,856	9,579	17,001	11,526	7,512	2,913	855	1,020								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	43	89	99	87	90	119	143	120								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,015
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	97

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* The South Derbyshire Coalfield consists of the Urban Districts of Alvaston and Boulton, Long Eaton, and Swadlincote District, and the Rural Districts of Shardlow and Repton.

† The North Staffordshire Coalfield consists of the County Borough of Stoke-on-Trent, the Municipal Borough of Newcastle-under Lyme, the Urban Districts of Audley, Biddulph, Kidsgrove, Leek, Smallthorne, Stone, Uttoxeter, and Wolstanton United; and theRural Districts of Blore Heath, Cheadle, Leek, Mayfield, Newcastle-under-Lyme, Stoke-upon-Trent, Stone, and Uttoxeter.

OCCUPATIONAL GROUP 7h.—COAL MINE—HEWERS AND GETTERS (042).
(Staffordshire (excluding the North Staffordshire Coalfield*), Shropshire, and Worcestershire.)

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH.
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.	For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
39	—	—	9	4	6	9	4	7	—	—	43	24	50	156	262	439	Influenza
63	1	3	15	17	8	13	5	1	29	31	72	101	67	225	327	63	Respiratory tuberculosis
5	—	—	3	—	1	1	—	—	—	—	14	—	8	17	—	—	Other tuberculosis
10	—	—	2	4	4	—	—	—	—	—	10	24	34	—	—	—	Syphilis, etc.
2	—	—	1	—	1	—	—	—	—	—	5	—	8	—	—	—	Syphilis
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Tabes dorsalis
8	—	—	1	4	3	—	—	—	—	—	5	24	25	—	—	—	General paralysis of insane
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Aneurysm
102	—	—	4	10	16	28	25	19	—	—	19	59	134	485	1637	1190	Cancer, all sites
3	—	—	—	—	1	1	1	—	—	—	—	—	8	17	65	—	Skin
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip
3	—	—	—	2	—	—	—	1	—	—	—	12	—	—	—	63	Tongue
3	—	—	—	1	—	1	—	1	—	—	—	6	—	17	—	63	Œsophagus
31	—	—	1	2	3	9	9	7	—	—	5	12	25	156	589	439	Stomach
62	—	—	3	5	12	17	15	10	—	—	14	30	101	294	982	627	Other sites
2	—	—	—	—	1	—	—	1	—	—	—	—	8	—	—	63	Chronic rheumatism, etc., Gout
6	—	—	1	1	1	2	—	1	—	—	5	6	8	35	—	63	Diabetes
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism
53	—	—	2	1	4	9	10	27	—	—	10	6	34	156	655	1692	Cerebral hæmorrhage, etc.
27	—	1	5	3	1	6	3	8	—	10	24	18	8	104	196	501	Other dis. of the nervous system
37	—	1	3	2	7	5	8	11	—	10	14	12	59	87	524	689	Valvular disease of heart
75	—	1	4	5	6	8	18	33	—	10	19	30	50	138	1179	2068	Other heart disease
39	—	—	—	—	1	2	6	30	—	—	—	—	8	35	393	1880	Arterio-sclerosis
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Other dis. of circulatory system
155	—	—	2	1	6	28	25	93	—	—	10	6	50	485	1637	5827	Bronchitis
88	2	3	10	18	19	13	11	12	57	31	48	106	159	225	720	752	Pneumonia
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia
11	—	—	—	3	—	2	3	3	—	—	—	18	—	35	196	188	Other dis. of respiratory system
8	—	—	2	2	2	1	1	—	—	—	10	12	17	17	65	—	Ulcer of stomach
2	—	1	—	—	1	—	—	—	—	10	—	—	8	—	—	—	Ulcer of duodenum
1	—	—	1	—	—	—	—	—	—	—	5	—	—	—	—	—	Appendicitis
3	—	—	1	—	—	1	1	—	—	—	5	—	—	17	65	—	Hernia
5	—	—	—	—	—	1	—	4	—	—	—	—	—	17	—	251	Intestinal obstruction
3	—	—	—	—	—	—	3	—	—	—	—	—	—	—	196	—	Cirrhosis of liver
18	—	—	1	1	2	3	3	8	—	—	5	6	17	52	196	501	Other dis. of digestive system
1	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—	—	Acute nephritis
25	—	—	2	2	6	4	2	9	—	—	10	12	50	69	131	564	Chronic nephritis
7	—	—	—	—	—	3	1	3	—	—	—	—	—	52	65	188	Diseases of the prostate
2	—	1	—	—	—	1	—	—	—	10	—	—	—	17	—	—	Other genito-urinary diseases
83	—	—	—	—	—	3	6	74	—	—	—	—	—	52	393	4637	Old age
12	—	—	—	—	5	4	1	2	—	—	—	—	42	69	65	125	Suicide
61	—	3	14	16	18	7	2	1	—	31	67	95	151	121	131	63	Accident
24	—	—	3	4	4	7	2	4	—	—	—	—	—	—	—	—	Other causes
967	3	14	84	94	120	161	140	351	86	145	405	556	1007	2786	9168	21992	All causes
71,640	3,501	9,663	20,742	16,914	11,919	5,778	1,527	1,596									Years of life (Census population × 3)
—	35	41	102	87	87	108	184	162									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	945
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	92

OCCUPATIONAL GROUP 7l.—COAL MINE—HEWERS AND GETTERS (042).
(Leicestershire, Warwickshire, and the South Derbyshire Coalfield.†)

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	21	—	2	3	3	5	4	2	2	—	19	16	20	58	117	203	221
Respiratory tuberculosis	44	—	8	17	11	4	4	—	—	—	75	89	75	47	117	—	—
Other tuberculosis	5	—	—	3	—	1	—	1	—	—	—	16	—	12	—	102	—
Syphilis, etc.	7	—	—	—	—	3	3	—	1	—	—	—	—	35	88	—	110
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	2	—	—	—	—	—	1	—	1	—	—	—	—	—	29	—	110
General paralysis of insane	3	—	—	—	—	1	2	—	—	—	—	—	—	12	59	—	—
Aneurysm	2	—	—	—	—	2	—	—	—	—	—	—	—	23	—	—	—
Cancer, all sites	55	—	—	1	6	9	18	7	14	—	—	5	41	105	528	711	1545
Skin	2	—	—	—	—	1	—	—	1	—	—	—	—	12	—	—	110
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	5	—	—	—	—	2	—	2	1	—	—	—	—	23	—	203	110
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	16	—	—	—	3	2	8	—	3	—	—	—	20	23	234	—	331
Other sites	32	—	—	1	3	4	10	5	9	—	—	5	20	47	293	508	993
Chronic rheumatism, etc., Gout	2	—	1	—	—	—	—	—	1	—	9	—	—	—	—	—	110
Diabetes	6	1	—	2	2	—	—	—	1	28	—	10	14	—	—	—	110
Alcoholism	1	—	—	—	1	—	—	—	—	—	—	—	7	—	—	—	—
Cerebral hæmorrhage, etc.	22	—	—	—	1	—	4	7	10	—	—	—	7	—	117	711	1104
Other dis. of the nervous system	16	1	1	1	4	4	2	1	2	28	9	5	27	47	59	102	221
Valvular disease of heart	22	—	2	1	3	1	6	1	8	—	19	5	20	12	176	102	883
Other heart disease	34	—	—	5	1	3	7	8	10	—	—	26	7	35	205	813	1104
Arterio-sclerosis	15	—	—	—	—	2	2	1	10	—	—	—	—	23	59	102	1104
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	42	—	—	—	1	2	6	6	27	—	—	—	7	23	176	610	2980
Pneumonia	28	—	1	7	8	5	5	1	1	—	9	36	55	58	147	102	110
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	4	—	—	—	2	—	2	—	—	—	—	—	14	—	59	—	—
Ulcer of stomach	2	—	—	—	1	—	—	—	1	—	—	—	7	—	—	—	110
Ulcer of duodenum	2	—	—	1	—	—	1	—	—	—	—	5	—	—	29	—	—
Appendicitis	6	—	2	2	2	—	—	—	—	—	19	10	14	—	—	—	—
Hernia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	29	—	—
Intestinal obstruction	1	—	—	—	1	—	—	—	—	—	—	—	7	—	—	—	—
Cirrhosis of liver	3	—	—	—	1	—	1	—	1	—	—	—	7	—	29	—	110
Other dis. of digestive system	6	—	—	—	1	4	—	—	1	—	—	—	7	47	—	—	110
Acute nephritis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	102	—
Chronic nephritis	7	—	—	1	—	2	2	1	1	—	—	5	—	23	59	102	110
Diseases of the prostate	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	110
Other genito-urinary diseases	2	—	—	—	—	2	—	—	—	—	—	—	—	23	—	—	—
Old age	29	—	—	—	—	—	—	—	29	—	—	—	—	—	—	—	3201
Suicide	12	—	1	1	6	2	—	2	—	—	9	5	41	23	—	203	—
Accident	45	3	7	13	7	8	3	1	3	85	65	68	48	93	88	102	331
Other causes	29	—	3	4	6	5	5	3	3	—	—	—	—	—	—	—	—
All causes	471	5	28	62	68	62	76	43	127	141	261	323	464	722	2228	4370	14018
Years of life (Census population × 3)	62,007	3,534	10,737	19,194	14,655	8,586	3,411	984	906								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	57	74	81	73	62	87	88	103								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	763
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	75

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* For the constitution of the North Staffordshire Coalfield, *see* page 98.

† For the constitution of the South Derbyshire Coalfield, *see* page 98.

OCCUPATIONAL GROUP 7j.—COAL MINE—HEWERS AND GETTERS (042).
(Glamorganshire.)

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	112	7	7	14	10	16	30	12	16	14	17	21	18	39	177	333	525
Respiratory tuberculosis	251	29	35	44	58	49	27	7	2	58	84	65	106	119	160	194	66
Other tuberculosis	37	10	10	6	4	4	1	2	—	20	24	9	7	10	6	56	—
Syphilis, etc.	56	—	—	9	15	23	8	1	—	—	—	13	27	56	47	28	—
Syphilis	2	—	—	1	1	—	—	—	—	—	—	1	2	—	—	—	—
Tabes dorsalis	10	—	—	1	2	4	2	1	—	—	—	1	4	10	12	28	—
General paralysis of insane	40	—	—	7	12	18	3	—	—	—	—	10	22	44	18	—	—
Aneurysm	4	—	—	—	—	1	3	—	—	—	—	—	—	2	18	—	—
Cancer, all sites	170	1	3	6	13	45	66	17	19	2	7	9	24	110	390	472	623
Skin	4	—	—	—	1	1	1	—	1	—	—	—	2	2	6	—	33
Lip	2	—	—	—	—	—	1	—	1	—	—	—	—	—	6	—	33
Tongue	4	—	—	—	—	1	2	1	—	—	—	—	—	2	12	28	—
Œsophagus	4	—	—	—	1	1	2	—	—	—	—	—	2	2	12	—	—
Stomach	54	—	—	1	6	18	21	6	2	—	—	1	11	44	124	167	66
Other sites	102	1	3	5	5	24	39	10	15	2	7	7	9	58	230	277	492
Chronic rheumatism, etc., Gout	12	—	—	—	—	3	1	5	3	—	—	—	—	7	6	139	98
Diabetes	10	1	1	4	1	2	—	—	1	2	2	6	2	5	—	—	33
Alcoholism	2	—	—	—	—	2	—	—	—	—	—	—	—	5	—	—	—
Cerebral hæmorrhage, etc.	138	1	1	3	6	15	45	18	49	2	2	4	11	37	266	500	1608
Other dis. of the nervous system	70	4	3	10	12	16	16	5	4	8	7	15	22	39	95	139	131
Valvular disease of heart	133	9	2	5	17	29	34	11	26	18	5	7	31	71	201	305	853
Other heart disease	170	6	4	7	13	22	52	21	45	12	10	10	24	54	307	583	1476
Arterio-sclerosis	41	—	—	—	—	1	14	6	20	—	—	—	—	2	83	167	656
Other dis. of circulatory system	2	—	—	—	1	—	—	1	—	—	—	—	2	—	—	28	—
Bronchitis	287	—	1	2	9	34	86	47	108	—	2	3	16	83	508	1304	3542
Pneumonia	173	12	16	22	30	40	27	12	14	24	39	33	55	97	160	333	459
Chronic interstitial pneumonia	10	—	—	—	—	5	3	1	1	—	—	—	—	12	18	28	33
Other dis. of respiratory system	58	—	—	4	5	9	11	15	14	—	—	6	9	22	65	416	459
Ulcer of stomach	15	—	1	2	5	2	5	—	—	—	2	3	9	5	30	—	—
Ulcer of duodenum	10	—	1	4	3	2	—	—	—	—	2	6	5	5	—	—	—
Appendicitis	19	8	4	—	5	—	2	—	—	16	10	—	9	—	12	—	—
Hernia	5	—	—	—	—	2	3	—	—	—	—	—	—	5	18	—	—
Intestinal obstruction	8	1	1	—	1	2	1	2	—	2	2	—	2	5	6	56	—
Cirrhosis of liver	7	—	—	—	1	1	4	1	—	—	—	—	2	2	24	28	—
Other dis. of digestive system	46	—	1	4	7	8	11	8	7	—	2	6	13	19	65	222	230
Acute nephritis	19	2	1	1	1	7	6	1	—	4	2	1	2	17	35	28	—
Chronic nephritis	54	—	2	5	6	14	12	3	12	—	5	7	11	34	71	83	394
Diseases of the prostate	7	—	—	—	—	—	1	2	4	—	—	—	—	—	6	56	131
Other genito-urinary diseases	17	1	—	1	1	5	6	—	3	2	—	1	2	12	35	—	98
Old age	118	—	—	—	—	—	2	6	110	—	—	—	—	—	12	167	3609
Suicide	21	—	2	1	3	7	6	2	—	—	5	1	5	17	35	56	—
Accident	263	41	31	69	46	50	16	6	4	82	75	103	84	122	95	167	131
Other causes	99	12	8	13	16	21	20	4	5	—	—	—	—	—	—	—	—
All causes	2,440	145	135	236	289	436	516	216	467	291	326	351	527	1061	3049	5995	15322
Years of life (Census population × 3)	278,058	49,815	41,448	67,251	54,888	41,082	16,923	3,603	3,048								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	118	93	88	82	92	119	120	113								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,001
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	96

OCCUPATIONAL GROUP 7k.—COAL MINE—HEWERS AND GETTERS (042).
(Monmouthshire.)

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	50	—	4	5	12	6	12	3	8	—	22	17	59	40	191	218	679
Respiratory tuberculosis	80	5	16	26	16	10	7	—	—	24	87	90	78	67	112	—	—
Other tuberculosis	14	1	3	2	3	2	3	—	—	5	16	7	15	13	48	—	—
Syphilis, etc.	14	—	—	1	7	4	1	—	1	—	—	3	34	27	16	—	85
Syphilis	2	—	—	1	1	—	—	—	—	—	—	3	5	—	—	—	—
Tabes dorsalis	3	—	—	—	2	—	1	—	—	—	—	—	10	—	16	—	—
General paralysis of insane	5	—	—	—	3	2	—	—	—	—	—	—	15	13	—	—	—
Aneurysm	4	—	—	—	1	2	—	—	1	—	—	—	5	13	—	—	85
Cancer, all sites	77	1	3	3	10	17	25	9	9	5	16	10	49	114	399	654	763
Skin	2	—	—	—	1	—	1	—	—	—	—	—	5	—	16	—	—
Lip	1	—	—	—	—	—	1	—	—	—	—	—	—	—	16	—	—
Tongue	3	—	—	—	—	2	—	1	—	—	—	—	—	13	—	73	—
Œsophagus	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	73	—
Stomach	29	—	—	1	2	8	12	3	3	—	—	3	10	53	191	218	254
Other sites	41	1	3	2	7	7	11	4	6	5	16	7	34	47	175	290	509
Chronic rheumatism, etc., Gout	3	—	—	—	—	—	3	—	—	—	—	—	—	—	48	—	—
Diabetes	5	—	1	1	2	—	1	—	—	—	5	3	10	—	16	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	43	—	—	—	1	3	9	8	22	—	—	—	5	20	143	581	1866
Other dis. of the nervous system	24	2	—	8	2	6	4	2	—	10	—	28	10	40	64	145	—
Valvular disease of heart	41	5	—	3	4	7	12	5	5	24	—	10	20	47	191	363	424
Other heart disease	42	—	1	4	4	3	11	6	13	—	5	14	20	20	175	436	1103
Arterio-sclerosis	16	—	—	—	—	1	2	2	11	—	—	—	—	7	32	145	933
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	85	—	1	—	4	11	16	17	36	—	5	—	20	74	255	1235	3053
Pneumonia	71	4	10	5	15	14	14	5	4	20	54	17	73	94	223	363	339
Chronic interstitial pneumonia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	16	—	—
Other dis. of respiratory system	29	3	3	3	1	5	10	1	3	15	16	10	5	33	159	73	254
Ulcer of stomach	11	1	—	1	4	4	1	—	—	5	—	3	20	27	16	—	—
Ulcer of duodenum	3	—	—	1	1	1	—	—	—	—	—	3	5	7	—	—	—
Appendicitis	7	2	—	1	3	1	—	—	—	10	—	3	15	7	—	—	—
Hernia	3	—	—	1	1	—	—	1	—	—	—	3	5	—	—	73	—
Intestinal obstruction	2	—	—	—	—	—	1	—	1	—	—	—	—	—	16	—	85
Cirrhosis of liver	3	—	—	—	—	1	2	—	—	—	—	—	—	7	32	—	—
Other dis. of digestive system	14	—	3	3	—	2	3	2	1	—	16	10	—	13	48	145	85
Acute nephritis	8	2	—	—	1	1	1	1	2	10	—	—	5	7	16	73	170
Chronic nephritis	14	—	2	2	2	3	2	1	2	—	11	7	10	20	32	73	170
Diseases of the prostate	6	—	—	1	—	—	3	—	2	—	—	3	—	—	48	—	170
Other genito-urinary diseases	7	—	—	2	—	2	2	—	1	—	—	7	—	13	32	—	85
Old age	58	—	—	—	—	—	1	3	54	—	—	—	—	—	16	218	4580
Suicide	11	—	—	2	5	2	—	1	1	—	—	7	24	13	—	73	85
Accident	94	13	15	20	19	15	8	2	2	64	81	70	93	100	128	145	170
Other causes	44	1	4	7	8	13	8	1	2	—	—	—	—	—	—	—	—
All causes	880	40	66	102	125	134	163	70	180	195	357	355	610	895	2598	5084	15267
Years of life (Census population × 3)	111,984	20,469	18,495	28,740	20,487	14,964	6,273	1,377	1,179								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	79	101	89	95	77	101	102	112								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	923
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	91

OCCUPATIONAL GROUP 71.—COAL MINE—HEWERS AND GETTERS (042).
(Brecknockshire, Carmarthenshire and Pembrokeshire.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	16	1	2	4	1	2	2	1	3	16	31	35	12	39	105	230	685
Respiratory tuberculosis	59	2	13	18	10	13	3	—	—	32	201	158	119	254	158	—	—
Other tuberculosis	6	—	1	2	2	—	1	—	—	—	15	18	24	—	53	—	—
Syphilis, etc.	2	—	—	—	—	—	2	—	—	—	—	—	—	—	105	—	—
Syphilis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	53	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	1	—	—	—	—	—	1	—	—	—	—	—	—	—	53	—	—
Cancer, all sites	23	—	1	1	4	5	6	3	3	—	15	9	47	98	315	690	685
Skin	1	—	—	—	1	—	—	—	—	—	—	—	12	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Æsophagus	1	—	—	—	—	1	—	—	—	—	—	—	—	20	—	—	—
Stomach	7	—	—	—	1	3	1	1	1	—	—	—	12	59	53	230	228
Other sites	14	—	1	1	2	1	5	2	2	—	15	9	24	20	263	460	457
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	4	—	—	—	2	1	—	1	—	—	—	—	24	20	—	230	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	20	—	—	—	2	2	6	5	5	—	—	—	24	39	315	1149	1142
Other dis. of the nervous system	10	1	—	1	2	2	2	2	—	16	—	9	24	39	105	460	—
Valvular disease of heart	17	—	2	1	3	2	5	1	3	—	31	9	36	39	263	230	685
Other heart disease	13	—	—	1	—	3	4	2	3	—	—	9	—	59	210	460	685
Arterio-sclerosis	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	457
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	64	—	—	—	2	3	15	18	26	—	—	—	24	59	789	4138	5936
Pneumonia	28	1	1	5	4	7	7	2	1	16	15	44	47	137	368	460	228
Chronic interstitial pneumonia	5	—	—	1	—	—	2	1	1	—	—	9	—	—	105	230	228
Other dis. of respiratory system	9	—	—	1	1	1	3	2	1	—	—	9	12	20	158	460	228
Ulcer of stomach	6	—	1	1	1	1	1	—	1	—	15	9	12	20	53	—	228
Ulcer of duodenum	1	—	—	1	—	—	—	—	—	—	—	9	—	—	—	—	—
Appendicitis	5	1	—	1	2	—	1	—	—	16	—	9	24	—	53	—	—
Hernia	3	—	—	—	—	—	1	—	2	—	—	—	—	—	53	—	457
Intestinal obstruction	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	228
Cirrhosis of liver	3	—	—	—	—	—	—	2	1	—	—	—	—	—	—	460	228
Other dis. of digestive system	1	—	1	—	—	—	—	—	—	—	15	—	—	—	—	—	—
Acute nephritis	3	—	1	—	—	1	1	—	—	—	15	—	—	20	53	—	—
Chronic nephritis	6	2	—	—	1	—	1	—	2	32	—	—	12	—	53	—	457
Diseases of the prostate	1	—	—	—	—	1	—	—	—	—	—	—	—	20	—	—	—
Other genito-urinary diseases	3	—	—	1	—	—	1	1	—	—	—	9	—	—	53	230	—
Old age	21	—	—	—	—	—	1	2	18	—	—	—	—	—	53	460	4110
Suicide	4	—	—	1	3	—	—	—	—	—	—	9	36	—	—	—	—
Accident	38	6	6	11	9	4	1	—	1	95	93	96	107	78	53	—	228
Other causes	17	3	—	7	5	1	—	—	1	—	—	—	—	—	—	—	—
All causes	391	17	29	58	54	49	66	43	75	270	449	509	641	959	3470	9885	17123
Years of life (Census population × 3)	40,461	6,288	6,456	11,406	8,424	5,112	1,902	435	438								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	109	128	128	100	83	135	198	126								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,135
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 111

OCCUPATIONAL GROUP 7m.—COAL MINE—HEWERS AND GETTERS (042).
(Cumberland.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	8	—	—	1	3	—	2	—	2	—	—	18	64	—	174	—	498
Respiratory tuberculosis	8	—	—	1	4	2	—	—	1	—	—	18	85	69	—	—	249
Other tuberculosis	1	—	—	—	1	—	—	—	—	—	—	—	21	—	—	—	—
Syphilis, etc.	2	—	—	1	—	1	—	—	—	—	—	18	—	35	—	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	1	—	—	—	—	—	—	—	35	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	1	—	—	1	—	—	—	—	—	—	—	18	—	—	—	—	—
Cancer, all sites	19	—	—	2	1	4	5	4	3	—	—	35	21	138	435	1333	746
Skin	1	—	—	—	—	1	—	—	—	—	—	—	—	35	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	—	1	—	—	—	—	—	—	—	87	—	—
Æsophagus	1	—	—	1	—	—	—	—	—	—	—	18	—	—	—	—	—
Stomach	12	—	—	—	1	3	3	4	1	—	—	—	21	104	261	1333	249
Other sites	4	—	—	1	—	—	1	—	2	—	—	18	—	—	87	—	498
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	2	—	—	—	1	1	—	—	—	—	—	—	21	35	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	14	—	1	—	1	—	3	3	6	—	36	—	21	—	261	1000	1493
Other dis. of the nervous system	4	—	—	1	1	1	—	—	1	—	—	18	21	35	—	—	249
Valvular disease of heart	13	—	—	—	—	3	1	5	4	—	—	—	—	104	87	1667	995
Other heart disease	20	—	—	1	—	6	3	3	7	—	—	18	—	207	261	1000	1741
Arterio-sclerosis	4	—	—	—	—	2	—	—	2	—	—	—	—	69	—	—	498
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	13	—	—	—	1	2	2	1	7	—	—	—	21	69	174	333	1741
Pneumonia	10	1	1	2	1	1	1	1	2	185	36	35	21	35	87	333	498
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	3	—	—	—	—	1	1	—	1	—	—	—	—	35	87	—	249
Ulcer of stomach	1	—	—	1	—	—	—	—	—	—	—	18	—	—	—	—	—
Ulcer of duodenum	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	249
Appendicitis	1	—	—	1	—	—	—	—	—	—	—	18	—	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	1	—	—	—	—	1	—	—	—	—	—	—	—	35	—	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	1	—	—	—	1	—	—	—	—	—	—	—	21	—	—	—	—
Acute nephritis	1	1	—	—	—	—	—	—	—	185	—	—	—	—	—	—	—
Chronic nephritis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	87	—	—
Diseases of the prostate	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	249
Other genito-urinary diseases	4	—	—	—	—	2	—	—	2	—	—	—	—	69	—	—	498
Old age	17	—	—	—	—	—	—	—	17	—	—	—	—	—	—	—	4229
Suicide	5	—	—	3	—	1	1	—	—	—	—	53	—	35	87	—	—
Accident	45	3	6	17	11	5	2	—	1	556	219	301	234	173	174	—	249
Other causes	8	—	1	1	3	3	—	—	—	—	—	—	—	—	—	—	—
All causes	208	5	9	32	29	36	22	17	58	926	328	567	618	1244	1915	5667	14428
Years of life (Census population × 3)	18,363	540	2,742	5,640	4,695	2,895	1,149	300	402								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	375	93	142	97	108	74	114	106								

All Causes—ages 20–65 years.
Comparative Mortality Figure (Standardized Death-rate) 960
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 102

OCCUPATIONAL GROUP 7n. COAL MINE HEWERS AND GETTERS (042). (Gloucestershire and Somersetshire.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	22	—	1	1	3	5	3	3	6	—	22	10	46	109	135	448	680
Respiratory tuberculosis	16	—	1	6	1	6	1	—	1	—	22	62	15	130	45	—	113
Other tuberculosis	7	1	—	2	—	2	1	1	—	47	—	21	—	43	45	149	—
Syphilis, etc.	1	—	—	1	—	—	—	—	—	—	—	10	—	—	—	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	1	—	—	1	—	—	—	—	—	—	—	10	—	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	20	—	—	—	1	5	5	4	5	—	—	—	15	109	225	598	567
Skin	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	149	113
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	113
Stomach	4	—	—	—	1	2	—	—	1	—	—	—	15	43	—	—	113
Other sites	13	—	—	—	—	3	5	3	2	—	—	—	—	65	225	448	227
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	113
Diabetes	3	—	1	1	1	—	—	—	—	—	22	10	15	—	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	17	—	—	—	1	1	1	4	10	—	—	—	15	22	45	598	1134
Other dis. of the nervous system	12	—	—	—	1	3	3	2	3	—	—	—	15	65	135	299	340
Valvular disease of heart	24	—	2	—	4	2	6	4	6	—	43	—	61	43	270	598	680
Other heart disease	42	—	—	3	—	3	10	7	19	—	—	31	—	65	450	1046	2154
Arterio-sclerosis	13	—	—	—	—	—	2	2	9	—	—	—	—	—	90	299	1020
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	58	—	—	—	—	1	9	11	37	—	—	—	—	22	405	1644	4195
Pneumonia	11	—	3	—	1	4	—	2	1	—	65	—	15	87	—	299	113
Chronic interstitial pneumonia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	45	—	—
Other dis. of respiratory system	15	—	—	1	2	—	4	3	5	—	—	10	31	—	180	448	567
Ulcer of stomach	2	—	—	—	1	1	—	—	—	—	—	—	15	22	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	2	—	—	1	1	—	—	—	—	—	—	10	15	—	—	—	—
Hernia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	113
Intestinal obstruction	2	—	—	—	—	—	1	—	1	—	—	—	—	—	45	—	113
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	6	—	—	—	—	1	1	3	1	—	—	—	—	22	45	448	113
Acute nephritis	2	—	—	1	1	—	—	—	—	—	—	10	15	—	—	—	—
Chronic nephritis	7	—	—	—	—	5	1	1	—	—	—	—	—	109	45	149	—
Diseases of the prostate	3	—	—	—	—	—	—	2	1	—	—	—	—	—	—	299	113
Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	27	—	—	—	—	—	—	3	24	—	—	—	—	—	—	448	2721
Suicide	6	—	—	—	2	—	2	—	2	—	—	—	31	—	90	—	227
Accident	24	—	—	6	8	3	4	2	1	—	—	62	123	65	180	299	113
Other causes	8	2	—	1	1	1	1	2	—	—	—	—	—	—	—	—	—
All causes	353	3	8	24	29	43	56	56	134	142	173	247	445	934	2523	8371	15193
Years of life (Census population × 3)	31,335	2,109	4,632	9,708	6,513	4,602	2,220	669	882								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	57	49	62	70	81	98	168	112								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 817

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 77

OCCUPATIONAL GROUP 8 10a. COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043–047). (Northumberland.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	40	7	—	—	5	5	10	6	7	41	—	—	64	69	172	294	684
Respiratory tuberculosis	77	16	11	14	10	15	7	2	2	93	104	155	129	206	120	98	196
Other tuberculosis	14	8	1	1	1	1	2	—	—	46	9	11	13	14	34	—	—
Syphilis, etc.	12	—	—	2	2	3	3	2	—	—	—	22	26	41	52	98	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	2	—	—	—	—	—	1	1	—	—	—	—	—	—	17	49	—
General paralysis of insane	5	—	—	1	1	2	1	—	—	—	—	11	13	27	17	—	—
Aneurysm	5	—	—	1	1	1	1	1	—	—	—	11	13	14	17	49	—
Cancer, all sites	82	1	—	—	2	16	27	17	19	6	—	—	26	219	464	831	1857
Skin	1	—	—	—	—	1	—	—	—	—	—	—	—	14	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	3	—	—	—	—	1	—	1	1	—	—	—	—	14	—	49	98
Œsophagus	1	—	—	—	—	—	1	—	—	—	—	—	—	—	17	—	—
Stomach	22	—	—	—	—	6	10	4	2	—	—	—	—	82	172	196	196
Other sites	55	1	—	—	2	8	16	12	16	6	—	—	26	110	275	587	1564
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	6	1	—	1	—	2	—	1	1	6	—	11	—	27	—	49	98
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	47	—	—	—	1	2	18	8	18	—	—	—	13	27	309	391	1760
Other dis. of the nervous system	22	2	1	6	2	5	3	2	1	12	9	66	26	69	52	98	98
Valvular disease of heart	48	3	2	1	3	7	13	6	13	17	19	11	39	96	223	293	1271
Other heart disease	39	—	1	3	4	1	11	10	9	—	9	33	52	14	189	489	880
Arterio-sclerosis	29	—	—	—	—	2	1	8	18	—	—	—	—	27	17	391	1760
Other dis. of circulatory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	98
Bronchitis	47	—	—	1	1	2	7	12	24	—	—	11	13	27	120	587	2346
Pneumonia	50	7	6	9	5	8	6	6	3	41	57	100	64	110	103	293	293
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	16	1	—	—	1	2	2	5	5	6	—	—	13	27	34	244	489
Ulcer of stomach	2	—	—	—	—	1	1	—	—	—	—	—	—	14	17	—	—
Ulcer of duodenum	4	—	—	—	1	1	1	—	1	—	—	—	13	14	17	—	98
Appendicitis	3	1	1	—	1	—	—	—	—	6	9	—	13	—	—	—	—
Hernia	3	—	1	—	—	1	—	—	1	—	9	—	—	14	—	—	98
Intestinal obstruction	7	—	—	2	3	—	2	—	—	—	—	22	39	—	34	—	—
Cirrhosis of liver	2	—	—	—	—	—	1	1	—	—	—	—	—	—	17	49	—
Other dis. of digestive system	14	1	1	1	1	4	—	1	5	6	9	11	13	55	—	49	489
Acute nephritis	1	—	—	1	—	—	—	—	—	—	—	11	—	—	—	—	—
Chronic nephritis	24	—	—	3	1	2	4	8	6	—	—	33	13	27	69	391	587
Diseases of the prostate	7	—	—	—	—	—	2	2	3	—	—	—	—	—	34	98	293
Other genito-urinary diseases	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	98	—
Old age	44	—	—	—	—	—	2	1	41	—	—	—	—	—	34	49	4008
Suicide	11	1	—	2	2	4	2	—	—	6	—	22	26	55	34	—	—
Accident	52	10	6	9	6	9	7	4	1	58	57	100	77	123	120	196	98
Other causes	30	3	4	2	4	4	9	3	1	—	—	—	—	—	—	—	—
All causes	736	62	35	58	56	97	141	107	180	360	332	641	721	1331	2423	5230	17595
Years of life (Census population × 3)	60,768	17,229	10,554	9,042	7,764	7,290	5,820	2,046	1,023								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	146	94	161	113	115	94	105	130								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,106

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 108

OCCUPATIONAL GROUP 8-10b.—COAL MINE UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043 047). (Durham.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	104	17	5	9	9	12	27	8	17	33	13	32	41	59	147	137	679
Respiratory tuberculosis	211	37	58	46	27	23	15	3	2	71	153	162	122	113	82	51	80
Other tuberculosis	41	11	15	7	4	3	—	1	—	21	40	25	18	15	—	17	—
Syphilis, etc.	24	1	—	2	4	5	8	4	—	2	—	7	18	25	44	69	—
Syphilis	1	—	—	1	—	—	—	—	—	—	—	4	—	—	—	—	—
Tabes dorsalis	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	34	—
General paralysis of insane	13	—	—	1	4	3	4	1	—	—	—	4	18	15	22	17	—
Aneurysm	8	1	—	—	—	2	4	1	—	2	—	—	—	10	22	17	—
Cancer, all sites	207	3	1	3	11	34	63	45	47	6	3	11	50	167	344	771	1878
Skin	10	—	—	—	1	1	3	1	4	—	—	—	5	5	16	17	160
Lip	2	—	—	—	—	—	1	1	—	—	—	—	—	—	5	17	—
Tongue	6	—	—	—	—	2	4	—	—	—	—	—	—	10	22	—	—
Œsophagus	2	—	—	—	—	1	—	—	1	—	—	—	—	5	—	—	40
Stomach	72	—	—	2	5	10	24	18	13	—	—	7	23	49	131	308	520
Other sites	115	3	1	1	5	20	31	25	29	6	3	4	23	98	169	428	1159
Chronic rheumatism, etc., Gout	5	—	—	—	—	1	1	1	2	—	—	—	—	5	5	17	80
Diabetes	23	5	2	4	—	6	2	3	1	10	5	14	—	30	11	51	40
Alcoholism	1	—	—	—	—	—	1	—	—	—	—	—	—	—	5	—	—
Cerebral hæmorrhage, etc.	208	—	—	2	5	10	46	49	96	—	—	7	23	49	251	840	3837
Other dis. of the nervous system	67	8	7	8	6	6	13	6	13	15	18	28	27	30	71	103	520
Valvular disease of heart	148	4	7	9	8	19	40	19	42	8	18	32	36	94	218	326	1679
Other heart disease	106	1	3	11	4	8	22	25	32	2	8	39	18	39	120	428	1279
Arterio-sclerosis	95	—	—	—	—	5	18	23	49	—	—	—	—	25	98	394	1958
Other dis. of circulatory system	2	—	—	—	—	2	—	—	—	—	—	—	—	10	—	—	—
Bronchitis	222	2	1	1	2	16	60	48	92	4	3	4	9	79	327	823	3677
Pneumonia	148	14	16	12	17	25	29	21	14	27	42	42	77	123	158	360	560
Chronic interstitial pneumonia	4	—	—	—	—	—	4	—	—	—	—	—	—	—	22	—	—
Other dis. of respiratory system	42	2	1	2	5	5	13	7	7	4	3	7	23	25	71	120	280
Ulcer of stomach	15	3	2	3	3	1	1	2	—	6	5	11	14	5	5	34	—
Ulcer of duodenum	10	—	2	—	2	3	2	1	—	—	5	—	9	15	11	17	—
Appendicitis	10	3	2	1	2	1	—	1	—	6	5	4	9	5	—	17	—
Hernia	11	—	1	—	—	3	2	—	5	—	3	—	—	15	11	—	200
Intestinal obstruction	11	—	2	2	—	1	2	1	3	—	5	7	—	5	11	17	120
Cirrhosis of liver	13	—	—	—	—	2	5	4	2	—	—	—	—	10	27	69	80
Other dis. of digestive system	43	3	1	1	5	4	12	7	10	6	3	4	23	20	65	120	400
Acute nephritis	8	—	1	3	—	1	1	1	1	—	3	11	—	5	5	17	40
Chronic nephritis	47	1	2	2	4	6	17	7	8	2	5	7	18	30	93	120	320
Diseases of the prostate	18	—	—	—	—	—	4	5	9	—	—	—	—	—	22	86	360
Other genito-urinary diseases	19	2	—	1	2	2	5	4	3	4	—	4	9	10	27	69	120
Old age	134	—	—	—	—	—	1	8	125	—	—	—	—	—	5	137	4996
Suicide	24	—	1	2	2	7	7	2	3	—	3	7	9	34	38	34	120
Accident	197	47	29	23	18	29	33	7	11	90	77	81	81	143	180	120	440
Other causes	108	13	7	9	13	15	26	9	16	—	—	—	—	—	—	—	
All causes	2,326	177	166	163	153	255	480	322	610	339	438	574	689	1255	2618	5518	24380
Years of life (Census population × 3)	187,728	52,206	37,896	28,416	22,221	20,316	18,336	5,835	2,502								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	137	124	144	108	109	102	111	179								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,106
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	111

OCCUPATIONAL GROUP 8-10c.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043-047). (Cheshire and Lancashire.)

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	63	8	8	9	8	4	15	5	6	24	31	39	55	30	171	204	667
Respiratory tuberculosis	126	20	33	17	19	19	18	—	—	60	130	73	131	144	205	—	—
Other tuberculosis	18	8	4	3	1	1	—	1	—	24	16	13	7	8	—	41	—
Syphilis, etc.	15	—	—	3	4	6	1	1	—	—	—	13	28	46	11	41	—
Syphilis	1	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	8	—	—	2	3	3	—	—	—	—	—	9	21	23	—	—	—
Aneurysm	6	—	—	1	1	2	1	1	—	—	—	4	7	15	11	41	—
Cancer, all sites	91	2	1	4	5	19	37	15	8	6	4	17	34	144	422	612	889
Skin	2	—	—	—	—	2	—	—	—	—	—	—	—	15	—	—	—
Lip	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	41	—
Tongue	4	—	—	—	—	1	2	1	—	—	—	—	—	8	23	41	—
Œsophagus	3	—	—	—	—	1	2	—	—	—	—	—	—	8	23	—	—
Stomach	28	1	—	2	4	9	7	5	—	3	—	9	28	68	80	204	—
Other sites	53	1	1	2	1	6	26	8	8	3	4	9	7	46	296	326	889
Chronic rheumatism, etc., Gout	3	—	1	—	—	—	1	1	—	—	4	—	—	—	11	41	—
Diabetes	7	—	2	1	1	—	1	1	1	—	8	4	7	—	11	41	111
Alcoholism	2	—	—	—	—	2	—	—	—	—	—	—	—	15	—	—	—
Cerebral hæmorrhage, etc.	54	—	—	1	1	8	20	14	10	—	—	4	7	61	228	571	1111
Other dis. of the nervous system	30	4	2	4	3	7	8	1	1	12	8	17	21	53	91	41	111
Valvular disease of heart	62	2	5	4	9	10	20	7	5	6	20	17	62	76	228	286	555
Other heart disease	55	1	—	2	4	14	18	7	9	3	—	9	28	106	205	286	1000
Arterio-sclerosis	34	—	—	—	—	2	13	9	10	—	—	—	—	15	148	367	1111
Other dis. of circulatory system	1	—	—	—	—	1	—	—	—	—	—	—	—	8	—	—	—
Bronchitis	112	—	1	4	4	13	41	23	26	—	4	17	28	99	468	938	2888
Pneumonia	108	11	12	7	13	28	24	7	6	33	47	30	89	213	273	286	667
Chronic interstitial pneumonia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	41	—
Other dis. of respiratory system	12	—	1	2	1	1	3	2	2	—	4	9	7	8	34	82	222
Ulcer of stomach	9	—	1	3	1	2	1	1	—	—	4	13	7	15	11	41	—
Ulcer of duodenum	1	—	—	—	—	—	1	—	—	—	—	—	—	—	11	—	—
Appendicitis	12	2	5	1	1	1	2	—	—	6	20	4	7	8	23	—	—
Hernia	2	1	—	—	—	1	—	—	—	3	—	—	—	8	—	—	—
Intestinal obstruction	10	3	—	1	2	—	1	2	1	9	—	4	14	—	11	82	111
Cirrhosis of liver	3	—	—	—	—	1	2	—	—	—	—	—	—	8	23	—	—
Other dis. of digestive system	23	1	3	2	3	3	8	—	3	3	12	9	21	23	91	—	333
Acute nephritis	7	—	—	—	—	2	5	—	—	—	—	—	—	15	57	—	—
Chronic nephritis	34	2	2	5	4	5	9	7	—	6	8	22	28	38	103	286	—
Diseases of the prostate	3	—	—	—	—	2	—	1	—	—	—	—	—	15	—	41	—
Other genito-urinary diseases	4	—	—	2	—	2	—	—	—	—	—	9	—	15	—	—	—
Old age	36	—	—	—	—	—	1	1	34	—	—	—	—	—	11	41	3777
Suicide	12	—	1	2	2	1	4	1	1	—	4	9	14	8	46	41	111
Accident	148	26	19	27	16	28	20	9	3	78	75	116	110	213	228	367	333
Other causes	83	14	14	10	6	17	11	9	2	—	—	—	—	—	—	—	—
All causes	1,181	105	115	114	108	200	285	126	128	315	452	492	743	1518	3250	5141	14222
Years of life (Census population × 3)	121,752	33,282	25,455	23,184	14,538	13,173	8,769	2,451	900								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	128	128	123	116	131	126	103	105								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,257
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	126

OCCUPATIONAL GROUP 8-10d.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043–047). (Yorkshire, West Riding.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	41	7	8	4	2	7	11	2	—	15	34	22	16	67	160	96	—
Respiratory tuberculosis	121	25	30	27	15	12	7	4	1	54	126	150	122	115	102	193	100
Other tuberculosis	13	4	5	1	1	—	1	1	—	9	21	6	8	—	15	48	—
Syphilis, etc.	6	—	1	—	2	2	1	—	—	—	4	—	16	19	15	—	—
Syphilis	1	—	—	—	1	—	—	—	—	—	—	—	8	—	—	—	—
Tabes dorsalis	1	—	—	—	—	1	—	—	—	—	—	—	—	10	—	—	—
General paralysis of insane	2	—	1	—	1	—	—	—	—	—	4	—	8	—	—	—	—
Aneurysm	2	—	—	—	—	1	1	—	—	—	—	—	—	10	15	—	—
Cancer, all sites	90	1	3	1	6	17	34	16	12	2	13	6	49	163	494	771	1201
Skin	2	—	—	1	—	—	—	—	1	—	—	6	—	—	—	—	100
Lip	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	100
Tongue	6	—	—	—	2	1	1	—	2	—	—	—	16	10	15	—	200
Œsophagus	5	—	—	—	—	—	2	3	—	—	—	—	—	—	29	145	—
Stomach	23	—	—	—	—	7	10	5	1	—	—	—	—	67	145	241	100
Other sites	53	1	3	—	4	9	21	8	7	2	13	—	33	86	305	385	701
Chronic rheumatism, etc., Gout	5	—	—	1	—	—	2	2	—	—	—	6	—	—	29	96	—
Diabetes	10	—	3	2	—	—	3	1	1	—	13	11	—	—	44	48	100
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	58	1	—	1	2	7	13	12	22	2	—	6	16	67	189	578	2202
Other dis. of the nervous system	29	9	3	5	5	4	2	—	1	19	13	28	41	38	29	—	100
Valvular disease of heart	76	10	5	6	8	3	22	12	10	22	21	33	65	29	319	578	1001
Other heart disease	42	2	4	1	2	8	9	7	9	4	17	6	16	77	131	337	901
Arterio-sclerosis	27	—	—	—	—	2	6	8	11	—	—	—	—	19	87	385	1101
Other dis. of circulatory system	4	1	—	—	—	—	1	2	—	2	—	—	—	—	15	96	—
Bronchitis	71	—	—	1	—	9	19	13	29	—	—	6	—	86	276	626	2903
Pneumonia	104	18	17	12	14	13	18	6	6	39	72	67	114	125	261	289	601
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	11	—	1	1	—	2	1	2	4	—	4	6	—	19	15	96	400
Ulcer of stomach	6	1	—	—	3	1	1	—	—	2	—	—	24	10	15	—	—
Ulcer of duodenum	3	—	1	—	—	1	—	—	1	—	4	—	—	10	—	—	100
Appendicitis	10	5	4	—	—	—	—	1	—	11	17	—	—	—	—	48	—
Hernia	3	1	—	—	—	—	1	1	—	2	—	—	—	—	15	48	—
Intestinal obstruction	1	—	1	—	—	—	—	—	—	—	4	—	—	—	—	—	—
Cirrhosis of liver	7	—	—	—	—	3	2	2	—	—	—	—	—	29	29	96	—
Other dis. of digestive system	17	3	1	2	1	4	3	1	2	6	4	11	8	38	44	48	200
Acute nephritis	6	3	2	—	—	—	1	—	—	6	8	—	—	—	15	—	—
Chronic nephritis	26	1	2	3	2	1	6	9	2	2	8	17	16	10	87	434	200
Diseases of the prostate	8	—	—	—	—	—	1	3	4	—	—	—	—	—	15	145	400
Other genito-urinary diseases	6	—	—	1	—	1	2	1	1	—	—	6	—	10	29	48	100
Old age	19	—	—	—	—	—	—	2	17	—	—	—	—	—	—	96	1702
Suicide	19	—	3	2	1	4	6	3	—	—	13	11	8	38	87	145	—
Accident	155	49	23	17	14	23	22	5	2	106	97	95	114	220	319	241	200
Other causes	50	12	8	4	5	7	8	4	2	—	—	—	—	—	—	—	—
All causes	1,044	153	125	92	83	131	203	120	137	331	526	512	677	1255	2947	5780	13714
Years of life (Census population × 3)	120,582	46,230	23,742	17,955	12,252	10,440	6,888	2,076	999								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	134	149	128	106	109	115	116	101								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,148
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	119

OCCUPATIONAL GROUP 8-10e.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043–047). (Nottinghamshire.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	9	1	1	—	—	2	1	2	2	7	24	—	—	81	59	357	1075
Respiratory tuberculosis	29	10	6	4	5	4	—	—	—	74	141	116	188	162	—	—	—
Other tuberculosis	8	3	1	1	1	—	2	—	—	22	24	29	38	—	118	—	—
Syphilis, etc.	4	—	—	—	—	2	1	—	1	—	—	—	—	81	59	—	538
Syphilis	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	538
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	3	—	—	—	—	2	1	—	—	—	—	—	—	81	59	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	29	1	—	—	—	6	13	6	3	7	—	—	—	243	767	1070	1613
Skin	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	178	—
Lip	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	178	—
Tongue	1	—	—	—	—	—	1	—	—	—	—	—	—	—	59	—	—
Œsophagus	3	—	—	—	—	2	1	—	—	—	—	—	—	81	59	—	—
Stomach	7	—	—	—	—	1	3	1	2	—	—	—	—	40	177	178	1075
Other sites	16	1	—	—	—	3	8	3	1	7	—	—	—	121	472	535	538
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	3	1	—	—	1	—	1	—	—	7	—	—	38	—	59	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	16	—	—	—	1	2	3	5	5	—	—	—	38	81	177	891	2688
Other dis. of the nervous system	12	2	—	2	3	3	—	—	2	15	—	58	113	121	—	—	1075
Valvular disease of heart	16	—	—	—	—	5	7	2	2	—	—	—	—	202	413	357	1075
Other heart disease	18	1	2	1	1	2	2	3	6	7	47	29	38	81	118	535	3226
Arterio-sclerosis	3	—	—	—	—	—	2	1	—	—	—	—	—	—	118	178	—
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	27	—	—	1	1	2	8	5	10	—	—	29	38	81	472	891	5376
Pneumonia	21	6	—	1	1	5	3	3	2	44	—	29	38	202	177	535	1075
Chronic interstitial pneumonia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	178	—
Other dis. of respiratory system	8	—	—	—	1	2	3	1	1	—	—	—	38	81	177	178	538
Ulcer of stomach	1	1	—	—	—	—	—	—	—	7	—	—	—	—	—	—	—
Ulcer of duodenum	1	1	—	—	—	—	—	—	—	7	—	—	—	—	—	—	—
Appendicitis	1	—	1	—	—	—	—	—	—	—	24	—	—	—	—	—	—
Hernia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	59	—	—
Intestinal obstruction	1	1	—	—	—	—	—	—	—	7	—	—	—	—	—	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	3	2	—	—	—	1	—	—	—	15	—	—	—	40	—	—	—
Acute nephritis	3	—	1	1	—	—	1	—	—	—	24	29	—	—	59	—	—
Chronic nephritis	1	—	—	1	—	—	—	—	—	—	—	29	—	—	—	—	—
Diseases of the prostate	2	—	—	—	—	1	—	1	—	—	—	—	—	40	—	178	—
Other genito-urinary diseases	2	—	—	—	—	—	1	—	1	—	—	—	—	—	59	—	538
Old age	15	—	—	—	—	—	—	1	14	—	—	—	—	—	—	178	7527
Suicide	4	1	—	—	1	2	—	—	—	7	—	—	38	81	—	—	—
Accident	38	13	3	7	3	3	3	5	1	96	71	203	113	121	177	891	538
Other causes	7	2	2	1	—	—	1	1	—	—	—	—	—	—	—	—	—
All causes	284	46	17	20	19	42	53	37	50	340	400	581	715	1699	3127	6595	26882
Years of life (Census population × 3)	28,773	13,515	4,245	3,441	2,658	2,472	1,695	561	186								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	138	114	146	112	147	122	132	198								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,291
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	127

OCCUPATIONAL GROUP 8-10f.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043-047). (Derbyshire, excluding the South Derbyshire Coalfield.*)

CAUSE OF DEATH.

For the precise significance of each title and it srelation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	10	2	1	—	1	1	2	2	1	11	18	—	34	34	89	262	355
Respiratory tuberculosis	27	3	6	6	4	4	2	2	—	17	106	145	136	135	89	262	—
Other tuberculosis	3	1	1	—	1	—	—	—	—	6	18	—	34	—	—	—	—
Syphilis, etc.	1	—	—	—	1	—	—	—	—	—	—	—	34	—	—	—	—
Syphilis	1	—	—	—	1	—	—	—	—	—	—	—	34	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	30	2	—	1	2	9	4	10	2	11	—	24	68	304	177	1312	709
Skin	4	—	—	—	—	1	1	1	1	—	—	—	—	34	44	131	355
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	131	—
Œsophagus	4	—	—	—	—	3	—	1	—	—	—	—	—	101	—	131	—
Stomach	6	—	—	—	—	3	1	2	—	—	—	—	—	101	44	262	—
Other sites	15	2	—	1	2	2	2	5	1	11	—	24	68	68	89	656	355
Chronic rheumatism, etc., Gout	2	—	—	—	—	1	1	—	—	—	—	—	—	34	44	—	—
Diabetes	2	1	—	—	—	1	—	—	—	6	—	—	—	34	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	10	—	1	—	—	3	2	3	1	—	18	—	—	101	89	394	355
Other dis. of the nervous system	15	6	4	2	—	1	—	2	—	33	71	48	—	34	—	262	—
Valvular disease of heart	16	1	3	1	2	1	2	5	1	6	53	24	68	34	89	656	355
Other heart disease	27	2	—	—	1	—	9	8	7	11	—	—	34	—	398	1050	2482
Arterio-sclerosis	7	—	—	—	—	—	3	2	2	—	—	—	—	—	133	262	709
Other dis. of circulatory system	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	131	—
Bronchitis	17	—	—	1	—	3	2	3	8	—	—	24	—	101	89	394	2837
Pneumonia	15	1	—	3	4	3	3	—	1	6	—	73	136	101	133	—	355
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	8	1	1	—	—	1	2	1	2	6	18	—	—	34	89	131	709
Ulcer of stomach	1	—	—	—	1	—	—	—	—	—	—	—	34	—	—	—	—
Ulcer of duodenum	1	—	1	—	—	—	—	—	—	—	18	—	—	—	—	—	—
Appendicitis	5	2	1	—	—	2	—	—	—	11	18	—	—	68	—	—	—
Hernia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	44	—	—
Intestinal obstruction	2	—	2	—	—	—	—	—	—	—	35	—	—	—	—	—	—
Cirrhosis of liver	1	—	—	—	—	1	—	—	—	—	—	—	—	34	—	—	—
Other dis. of digestive system	4	—	—	—	—	—	2	2	—	—	—	—	—	—	89	262	—
Acute nephritis	1	—	—	1	—	—	—	—	—	—	—	24	—	—	—	—	—
Chronic nephritis	9	1	1	1	—	3	1	1	1	6	18	24	—	101	44	131	355
Diseases of the prostate	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	131	—
Other genito-urinary diseases	6	1	1	—	1	2	1	—	—	6	18	—	34	68	44	—	—
Old age	15	—	—	—	—	—	1	2	12	—	—	—	—	—	44	262	4255
Suicide	7	1	1	—	—	1	4	—	—	6	18	—	—	34	177	—	—
Accident	47	26	2	5	5	5	3	1	—	144	35	121	169	169	133	131	—
Other causes	16	2	3	—	2	1	2	5	1	—	—	—	—	—	—	—	—
All causes	308	53	29	21	25	43	47	51	39	294	511	503	847	1452	2080	6693	13830
Years of life (Census population × 3)	37,032	18,006	5,673	4,137	2,952	2,961	2,259	762	282								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	119	145	127	133	126	81	134	102								

All Causes—ages 20-65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,107
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 111

OCCUPATIONAL GROUP 8-10g.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043-047). (North Staffordshire Coalfield.†)

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	11	3	—	1	1	—	4	—	2	26	—	29	35	—	242	—	939
Respiratory tuberculosis	24	3	8	5	5	—	3	—	—	26	174	147	174	—	181	—	—
Other tuberculosis	4	2	2	—	—	—	—	—	—	17	43	—	—	—	—	—	—
Syphilis, etc.	2	—	—	—	1	—	—	1	—	—	—	—	35	—	—	230	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	230	—
General paralysis of insane	1	—	—	—	1	—	—	—	—	—	—	—	35	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	26	—	—	—	1	4	14	3	4	—	—	—	35	153	847	690	1878
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	12	—	—	—	1	—	8	2	1	—	—	—	35	—	484	460	469
Other sites	14	—	—	—	—	4	6	1	3	—	—	—	—	153	363	230	1408
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	230	—
Diabetes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	8	—	—	—	—	1	3	3	1	—	—	—	—	38	181	690	469
Other dis. of the nervous system	3	2	—	—	—	1	—	—	—	17	—	—	—	38	—	—	—
Valvular disease of heart	19	—	4	3	2	2	5	2	1	—	87	88	69	76	302	460	469
Other heart disease	10	—	—	—	2	1	4	1	2	—	—	—	69	38	242	230	939
Arterio-sclerosis	7	—	—	—	—	—	3	1	3	—	—	—	—	—	181	230	1408
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	17	—	—	1	—	3	5	4	4	—	—	29	—	115	302	920	1878
Pneumonia	15	2	2	3	2	3	3	—	—	17	43	88	69	115	181	—	—
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ulcer of stomach	1	—	—	—	1	—	—	—	—	—	—	—	35	—	—	—	—
Ulcer of duodenum	1	—	—	—	—	1	—	—	—	—	—	—	—	38	—	—	—
Appendicitis	4	—	3	—	—	1	—	—	—	—	65	—	—	38	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	4	1	2	1	—	—	—	—	—	9	43	29	—	—	—	—	—
Cirrhosis of liver	1	—	—	—	—	—	1	—	—	—	—	—	—	—	60	—	—
Other dis. of digestive system	2	—	—	1	1	—	—	—	—	—	—	29	35	—	—	—	—
Acute nephritis	1	—	1	—	—	—	—	—	—	—	22	—	—	—	—	—	—
Chronic nephritis	4	—	1	—	1	—	2	—	—	—	22	—	35	—	121	—	—
Diseases of the prostate	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	939
Other genito-urinary diseases	1	—	1	—	—	—	—	—	—	—	22	—	—	—	—	—	—
Old age	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	469
Suicide	1	—	—	—	—	—	1	—	—	—	—	—	—	—	60	—	—
Accident	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other causes	16	5	3	—	2	3	1	1	1	—	—	—	—	—	—	—	—
All causes	186	18	27	15	19	20	49	17	21	154	587	440	660	764	2964	3908	9859
Years of life (Census population × 3)	27,477	11,667	4,602	3,408	2,880	2,619	1,653	435	213								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	62	167	110	103	66	115	78	73								

All Causes—ages 20-65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,020
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 107

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* For the constitution of the South Derbyshire Coalfield, *see* page 98.

† For the constitution of the North Staffordshire Coalfield, *see* page 98.

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

OCCUPATIONAL GROUP 8-10h.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043-047.)
(Staffordshire (excluding the North Staffordshire Coalfield*), Shropshire and Worcestershire.)

	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
Cause of death	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	16	4	1	2	2	3	3	1		44	20	53	68	114	167	161	—
Respiratory tuberculosis	22	8	6	2	3	2	—	—	1	87	119	53	102	76	—	—	422
Other tuberculosis	5	2	2	—	—	—	—	—	1	22	40	—	—	—	—	—	422
Syphilis, etc.	2	—	—	—	—	—	2	—	—	—	—	—	—	—	111	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	56	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	1	—	—	—	—	—	1	—	—	—	—	—	—	—	56	—	—
Cancer, all sites	25	1	—	—	2	6	11	3	2	11	—	—	68	228	612	483	844
Skin	1	—	—	—	—	1	—	—	—	—	—	—	—	38	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	1	1	—	—	—	—	—	—	38	56	—	—
Œsophagus	2	—	—	—	—	—	1	—	1	—	—	—	—	—	56	—	422
Stomach	3	—	—	—	—	2	1	—	—	—	—	—	—	76	56	—	—
Other sites	17	1	—	—	2	2	8	3	1	11	—	—	68	76	445	483	422
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	5	1	—	—	—	1	—	3	—	11	—	—	—	38	—	483	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	7	—	—	—	—	1	3	1	2	—	—	—	—	38	167	161	844
Other dis. of the nervous system	4	1	—	2	—	—	1	—	—	11	—	53	—	—	56	—	—
Valvular disease of heart	6	—	—	—	—	2	1	1	2	—	—	—	—	76	56	161	844
Other heart disease	9	1	2	—	—	—	4	—	2	11	40	—	—	—	223	—	844
Arterio-sclerosis	7	—	—	—	—	1	1	—	5	—	—	—	—	38	56	—	2110
Other dis. of circulatory system	1	—	—	1	—	—	—	—	—	—	—	27	—	—	—	—	—
Bronchitis	18	—	—	—	1	1	5	4	7	—	—	—	34	38	278	644	2954
Pneumonia	20	2	3	1	1	5	4	2	2	22	59	27	34	190	223	322	844
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	4	2	—	—	1	1	—	—	—	22	—	—	34	38	—	—	—
Ulcer of stomach	1	—	—	—	—	—	1	—	—	—	—	—	—	—	56	—	—
Ulcer of duodenum	2	—	—	—	—	1	1	—	—	—	—	—	—	38	56	—	—
Appendicitis	2	1	—	—	1	—	—	—	—	11	—	—	34	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	3	1	—	—	1	1	—	—	—	11	—	—	34	38	—	—	—
Acute nephritis	2	—	1	—	—	1	—	—	—	—	20	—	—	38	—	—	—
Chronic nephritis	3	—	1	—	1	—	1	—	—	—	20	—	34	—	56	—	—
Diseases of the prostate	2	—	—	—	—	—	1	1	—	—	—	—	—	—	56	161	—
Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	10	—	—	—	—	—	—	—	10	—	—	—	—	—	—	—	4219
Suicide	2	—	—	—	—	1	1	—	—	—	—	—	—	38	56	—	—
Accident	34	13	4	5	—	5	5	2	—	142	79	133	—	190	278	322	—
Other causes	7	2	—	1	—	1	3	—	—	—	—	—	—	—	—	—	—
All causes	219	39	20	14	13	33	48	18	34	425	397	373	444	1253	2671	2899	14346
Years of life (Census population × 3)	26,184	9,168	5,043	3,756	2,928	2,634	1,797	621	237								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	172	113	93	69	108	104	58	106								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	984
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	100

OCCUPATIONAL GROUP 8-10i.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043-047). (Leicestershire, Warwickshire and the South Derbyshire Coalfield)†

	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
Cause of death	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	6	—	1	2	—	1	1	1	—	—	30	59	—	42	75	288	—
Respiratory tuberculosis	18	2	5	1	3	7	—	—	—	24	150	30	116	294	—	—	—
Other tuberculosis	2	2	—	—	—	—	—	—	—	24	—	—	—	—	—	—	—
Syphilis, etc.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	17	—	—	—	—	4	7	3	3	—	—	—	—	168	528	862	2439
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	1	—	—	—	—	1	—	—	—	—	—	—	—	42	—	—	—
Tongue	1	—	—	—	—	—	1	—	—	—	—	—	—	—	75	—	—
Œsophagus	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	288	—
Stomach	2	—	—	—	—	1	1	—	—	—	—	—	—	42	75	—	—
Other sites	12	—	—	—	—	2	5	2	3	—	—	—	—	84	377	575	2439
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	1	—	1	—	—	—	—	—	75	—	813
Diabetes	1	—	1	—	—	—	—	—	—	—	30	—	—	—	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	5	—	—	—	—	1	1	2	1	—	—	—	—	42	75	575	813
Other dis. of the nervous system	2	1	—	—	—	—	—	—	1	12	—	—	—	—	—	—	813
Valvular disease of heart	9	1	—	—	—	1	2	3	2	12	—	—	—	42	151	862	1626
Other heart disease	12	1	1	2	1	2	2	—	3	12	30	59	39	84	151	—	2439
Arterio-sclerosis	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	813
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	9	—	—	—	—	1	2	3	3	—	—	—	—	42	151	862	2439
Pneumonia	9	—	2	2	—	—	3	1	1	—	60	59	—	—	226	288	813
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	4	—	—	—	—	2	1	1	—	—	—	—	—	84	75	288	—
Ulcer of stomach	1	—	—	1	—	—	—	—	—	—	—	30	—	—	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	1	1	—	—	—	—	—	—	—	12	—	—	—	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	1	1	—	—	—	—	—	—	—	12	—	—	—	—	—	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	3	—	—	—	—	—	3	—	—	—	—	—	—	—	226	—	—
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	1	1	—	—	—	—	—	—	—	12	—	—	—	—	—	—	—
Diseases of the prostate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other genito-urinary diseases	1	—	1	—	—	—	—	—	—	—	30	—	—	—	—	—	—
Old age	8	—	—	—	—	—	—	—	8	—	—	—	—	—	—	—	6504
Suicide	1	—	1	—	—	—	—	—	—	—	30	—	—	—	—	—	—
Accident	16	6	3	3	2	—	1	1	—	73	90	89	77	—	75	288	—
Other causes	10	3	1	1	—	4	1	—	—	—	—	—	—	—	—	—	—
All causes	140	19	16	12	6	23	25	15	24	230	481	357	232	966	1885	4310	19512
Years of life (Census population × 3)	21,723	8,262	3,327	3,366	2,589	2,382	1,326	348	123								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	93	137	89	36	84	73	86	144								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	748
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	79

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* For the constitution of the North Staffordshire Coalfield, *see* page 98.

† For the constitution of the South Derbyshire Coalfield, *see* page 98.

OCCUPATIONAL GROUP 8-10j.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043-047). (Glamorganshire.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	92	—	3	16	7	18	26	12	10	—	20	51	25	79	200	371	567
Respiratory tuberculosis	155	2	18	32	45	36	19	3	—	30	118	103	158	157	147	93	—
Other tuberculosis	9	3	1	1	2	1	1	—	—	45	7	3	7	4	8	—	—
Syphilis, etc.	37	—	—	4	10	14	6	2	1	—	—	13	35	61	46	62	57
Syphilis	4	—	—	1	3	—	—	—	—	—	—	3	11	—	—	—	—
Tabes dorsalis	9	—	—	—	1	5	1	1	1	—	—	—	4	22	8	31	57
General paralysis of insane	15	—	—	3	3	7	2	—	—	—	—	10	11	31	15	—	—
Aneurysm	9	—	—	—	3	2	3	1	—	—	—	—	11	9	23	31	—
Cancer, all sites	176	1	1	2	14	42	77	16	23	15	7	6	49	184	594	494	1304
Skin	4	—	—	—	—	—	2	—	2	—	—	—	—	—	15	—	113
Lip	5	—	—	—	—	1	3	—	1	—	—	—	—	4	23	—	57
Tongue	13	—	—	—	—	3	7	1	2	—	—	—	—	13	54	31	113
Œsophagus	8	—	—	—	—	2	1	3	2	—	—	—	—	9	8	93	113
Stomach	52	—	—	1	3	15	25	3	5	—	—	3	11	66	193	93	283
Other sites	94	1	1	1	11	21	39	9	11	15	7	3	39	92	301	278	624
Chronic rheumatism, etc., Gout	7	—	—	—	—	1	2	3	1	—	—	—	—	4	15	93	57
Diabetes	11	1	2	—	4	1	3	—	—	15	13	—	14	4	23	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	123	—	—	1	2	28	45	16	31	—	—	3	7	122	347	494	1757
Other dis. of the nervous system	42	1	1	5	4	13	13	4	1	15	7	16	14	57	100	124	57
Valvular disease of heart	96	4	—	6	14	22	34	7	9	60	—	19	49	96	262	216	510
Other heart disease	136	3	2	6	14	19	52	16	24	45	13	19	49	83	401	494	1361
Arterio-sclerosis	37	—	—	—	—	10	10	3	14	—	—	—	—	44	77	93	794
Other dis. of circulatory system	2	—	—	—	—	1	1	—	—	—	—	—	—	4	8	—	—
Bronchitis	176	—	—	1	12	23	60	34	46	—	—	3	42	100	463	1050	2608
Pneumonia	131	3	7	14	19	28	41	12	7	45	46	45	67	122	316	371	397
Chronic interstitial pneumonia	3	—	—	—	1	1	—	1	—	—	—	—	4	4	—	31	—
Other dis. of respiratory system	39	—	—	2	5	14	10	5	3	—	—	6	18	61	77	154	170
Ulcer of stomach	10	—	—	4	2	1	2	1	—	—	—	13	7	4	15	31	—
Ulcer of duodenum	6	—	—	1	3	1	1	—	—	—	—	3	11	4	8	—	—
Appendicitis	9	1	—	4	—	2	2	—	—	15	—	13	—	9	15	—	—
Hernia	6	—	—	1	—	3	2	—	—	—	—	3	—	13	15	—	—
Intestinal obstruction	7	—	—	1	3	1	1	—	1	—	—	3	11	4	8	—	57
Cirrhosis of liver	8	—	—	—	1	4	1	2	—	—	—	—	4	17	8	62	—
Other dis. of digestive system	40	1	—	3	2	6	14	5	9	15	—	10	7	26	108	154	510
Acute nephritis	12	1	3	—	1	1	4	—	2	15	20	—	4	4	31	—	113
Chronic nephritis	44	—	2	—	6	9	16	8	3	—	13	—	21	39	123	247	170
Diseases of the prostate	13	—	—	—	—	1	3	7	2	—	—	—	—	4	23	216	113
Other genito-urinary diseases	15	—	—	1	2	2	2	1	7	—	—	3	7	9	15	31	397
Old age	70	—	—	—	—	—	2	3	65	—	—	—	—	—	15	93	3685
Suicide	26	—	1	6	4	6	6	3	—	—	7	19	14	26	46	93	—
Accident	302	12	35	57	67	64	45	13	9	179	229	183	235	280	347	402	510
Other causes	85	2	6	10	21	20	17	8	1	—	—	—	—	—	—	—	—
All causes	1,925	35	82	178	265	393	518	185	269	522	536	573	930	1717	3994	5715	15249
Years of life (Census population × 3)	122,418	6,705	15,294	31,074	28,488	22,887	12,969	3,237	1,764								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	211	152	144	146	149	155	115	112								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,503

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 150

OCCUPATIONAL GROUP 8-10k.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043-047). (Monmouthshire.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	22	1	3	1	3	2	3	5	4	49	60	9	29	25	73	467	775
Respiratory tuberculosis	42	3	6	7	10	12	4	—	—	146	119	63	98	151	98	—	—
Other tuberculosis	2	1	—	1	—	—	—	—	—	49	—	9	—	—	—	—	—
Syphilis, etc.	9	—	—	—	2	5	2	—	—	—	—	—	20	63	49	—	—
Syphilis	3	—	—	—	—	1	2	—	—	—	—	—	—	13	49	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	5	—	—	—	2	3	—	—	—	—	—	—	20	38	—	—	—
Aneurysm	1	—	—	—	—	1	—	—	—	—	—	—	—	13	—	—	—
Cancer, all sites	44	—	—	—	7	12	16	6	3	—	—	—	68	151	390	558	581
Skin	2	—	—	—	—	—	1	1	—	—	—	—	—	—	24	93	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	4	—	—	—	—	—	3	—	1	—	—	—	—	—	73	—	194
Œsophagus	3	—	—	—	—	2	—	1	—	—	—	—	—	25	—	93	—
Stomach	9	—	—	—	3	1	3	1	1	—	—	—	29	13	73	93	194
Other sites	26	—	—	—	4	9	9	3	1	—	—	—	39	113	219	280	194
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	2	—	—	—	—	—	—	—	49	—	—
Diabetes	4	—	—	1	2	1	—	—	—	—	—	9	20	13	—	—	—
Alcoholism	1	—	—	—	—	1	—	—	—	—	—	—	—	13	—	—	—
Cerebral hæmorrhage, etc.	43	—	—	3	—	3	16	4	17	—	—	27	—	38	390	373	3295
Other dis. of the nervous system	5	—	—	1	1	—	3	—	—	—	—	9	10	—	73	—	—
Valvular disease of heart	31	—	—	1	2	10	10	4	4	—	—	9	20	126	244	373	775
Other heart disease	40	3	1	1	5	5	14	4	7	146	20	9	49	63	341	373	1357
Arterio-sclerosis	14	—	—	—	—	5	5	3	1	—	—	—	—	63	122	280	194
Other dis. of circulatory system	4	1	—	—	—	1	1	—	1	49	—	—	—	13	24	—	194
Bronchitis	41	—	1	2	6	3	9	7	13	—	20	18	59	38	219	654	2519
Pneumonia	33	1	2	5	3	7	9	5	1	49	40	45	29	88	219	467	194
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	9	—	—	—	1	4	2	1	1	—	—	—	10	50	49	93	194
Ulcer of stomach	6	—	—	—	2	1	3	—	—	—	—	—	20	13	73	—	—
Ulcer of duodenum	1	—	—	1	—	—	—	—	—	—	—	9	—	—	—	—	—
Appendicitis	2	—	—	—	1	1	—	—	—	—	—	—	10	13	—	—	—
Hernia	2	—	—	—	—	1	1	—	—	—	—	—	—	13	24	—	—
Intestinal obstruction	4	—	—	—	—	3	—	—	1	—	—	—	—	38	—	—	194
Cirrhosis of liver	6	—	—	—	2	1	3	—	—	—	—	—	20	13	73	—	—
Other dis. of digestive system	21	—	—	1	5	5	4	3	3	—	—	9	49	63	98	280	581
Acute nephritis	4	—	—	1	3	—	—	—	—	—	—	9	29	—	—	—	—
Chronic nephritis	6	—	—	—	1	1	2	1	1	—	—	—	10	13	49	93	194
Diseases of the prostate	3	—	—	—	—	—	1	2	—	—	—	—	—	—	24	187	—
Other genito-urinary diseases	2	—	—	—	—	1	1	—	—	—	—	—	—	13	24	—	—
Old age	16	—	—	—	—	—	—	1	15	—	—	—	—	—	—	93	2907
Suicide	6	—	—	1	3	—	1	—	1	—	—	9	29	—	24	—	194
Accident	70	4	9	12	14	14	12	3	2	195	179	108	137	176	293	280	388
Other causes	23	1	—	2	4	6	7	1	2	—	—	—	—	—	—	—	—
All causes	518	15	22	41	77	105	131	50	77	732	437	371	753	1320	3194	4669	14922
Years of life (Census population × 3)	42,003	2,049	5,031	11,061	10,221	7,953	4,101	1,071	516								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	296	124	93	118	114	124	94	110								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,168

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 116

CAUSE OF DEATH.

For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

OCCUPATIONAL GROUP 8-10l.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043–047). (Brecknockshire, Carmarthenshire, and Pembrokeshire.)

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	9	—	—	3	2	2	1	—	1	—	—	79	68	86	78	—	667
Respiratory tuberculosis	14	1	1	4	6	—	2	—	—	67	45	105	204	—	155	—	—
Other tuberculosis	4	—	1	—	2	—	1	—	—	—	45	—	68	—	78	—	—
Syphilis, etc.	2	—	—	—	1	1	—	—	—	—	—	—	34	43	—	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane	1	—	—	—	1	—	—	—	—	—	—	—	34	—	—	—	—
Aneurysm	1	—	—	—	—	1	—	—	—	—	—	—	—	43	—	—	—
Cancer, all sites	10	—	—	1	—	4	4	—	1	—	—	26	—	173	310	—	667
Skin	1	—	—	1	—	—	—	—	—	—	—	26	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	5	—	—	—	—	2	3	—	—	—	—	—	—	86	233	—	—
Other sites	4	—	—	—	—	2	1	—	1	—	—	—	—	86	78	—	667
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	1	—	—	1	—	—	—	—	—	—	—	26	—	—	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	6	—	—	—	—	2	1	—	3	—	—	—	—	86	78	—	2000
Other dis. of the nervous system	3	—	—	1	1	—	1	—	—	—	—	26	34	—	78	—	—
Valvular disease of heart	15	—	—	2	1	1	5	3	3	—	—	53	34	43	388	952	2000
Other heart disease	16	2	1	—	2	1	6	1	3	135	45	—	68	43	465	317	2000
Arterio-sclerosis	3	—	—	—	—	—	2	—	1	—	—	—	—	—	155	—	667
Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	78	—	—
Bronchitis	14	—	—	1	—	2	4	4	3	—	—	26	—	86	310	1270	2000
Pneumonia	6	—	—	1	3	—	2	—	—	—	—	26	102	—	155	—	—
Chronic interstitial pneumonia	3	—	—	—	1	—	1	1	—	—	—	—	34	—	78	317	—
Other dis. of respiratory system	6	—	—	—	—	1	2	1	2	—	—	—	—	43	155	317	1333
Ulcer of stomach	1	—	—	—	—	1	—	—	—	—	—	—	—	43	—	—	—
Ulcer of duodenum	1	1	—	—	—	—	—	—	—	67	—	—	—	—	—	—	—
Appendicitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	1	—	—	—	1	—	—	—	—	—	—	—	34	—	—	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	317	667
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	3	1	—	—	—	—	1	1	—	67	—	—	—	—	78	317	—
Diseases of the prostate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	4	—	—	—	—	—	—	—	4	—	—	—	—	—	—	—	2667
Suicide	4	—	—	—	3	1	—	—	—	—	—	—	102	43	—	—	—
Accident	31	3	3	6	10	5	3	1	—	202	134	158	339	216	233	317	—
Other causes	8	1	—	1	1	3	1	1	—	—	—	—	—	—	—	—	—
All causes	168	9	6	21	34	24	38	14	22	606	268	554	1154	1036	2946	4444	14667
Years of life (Census population × 3)	14,529	1,485	2,235	3,792	2,946	2;316	1,290	315	150								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	245	76	139	181	90	115	89	108								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,200
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	121

OCCUPATIONAL GROUP 8-10m.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043–047). (Cumberland.)

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	2	—	—	1	—	—	—	—	1	—	—	69	—	—	—	—	1235
Respiratory tuberculosis	9	—	2	4	1	—	—	2	—	—	112	277	95	—	—	855	—
Other tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis, etc.	1	—	—	—	1	—	—	—	—	—	—	—	95	—	—	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	1	—	—	—	—	—	—	—	95	—	—	—	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	9	—	1	—	1	3	2	1	1	—	56	—	95	324	330	427	1235
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	4	—	—	—	—	1	2	—	1	—	—	—	—	108	330	—	1235
Other sites	5	—	1	—	1	2	—	1	—	—	56	—	95	216	—	427	—
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	5	—	—	—	—	—	1	1	3	—	—	—	—	—	165	427	3704
Other dis. of the nervous system	4	1	1	—	—	1	—	—	1	39	56	—	—	108	—	—	1235
Valvular disease of heart	4	—	1	—	1	1	1	—	—	—	56	—	95	108	165	—	—
Other heart disease	7	—	—	—	1	—	3	2	1	—	—	—	95	—	495	855	1235
Arterio-sclerosis	2	—	—	—	—	—	1	1	—	—	—	—	—	—	165	427	—
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	5	—	—	—	—	1	2	2	—	—	—	—	—	108	330	855	—
Pneumonia	3	—	1	1	—	—	—	—	1	—	56	69	—	—	—	—	1235
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	2	—	—	—	1	1	—	—	—	—	—	—	95	108	—	—	—
Ulcer of stomach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	2	—	—	—	2	—	—	—	—	—	—	—	189	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	1	—	—	—	—	—	1	—	—	—	—	—	—	—	165	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system	2	—	—	—	—	—	2	—	—	—	—	—	—	—	330	—	—
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	1	—	—	—	—	1	—	—	—	—	—	—	—	108	—	—	—
Diseases of the prostate	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	2469
Other genito-urinary diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	427	2469
Suicide	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	427	—
Accident	26	7	2	9	1	4	3	—	—	273	112	624	95	431	495	—	—
Other causes	3	—	—	—	1	—	1	1	—	—	—	—	—	—	—	—	—
All causes	94	8	8	15	10	12	17	12	12	312	447	1040	947	1294	2805	5128	14815
Years of life (Census population × 3)	8,700	25,62	1,791	1,443	1,056	927	606	234	81								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	126	127	261	148	112	109	103	109								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,347
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	135

OCCUPATIONAL GROUP 8–10n.—COAL MINE—UNDERGROUND WORKERS, NOT HEWERS OR SUPERINTENDING STAFF (043–047). (Gloucestershire and Somersetshire.)

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
All Ages 16 and upwards.	16–	20–	25–	35–	45–	55–	65–	70 and upwards.	16–	20–	25–	35–	45–	55–	65–	70 and up.	
4	—	1	—	—	1	—	1	1	—	27	—	—	62	—	287	565	Influenza
10	1	—	3	—	1	4	1	—	24	—	94	—	62	412	287	—	Respiratory tuberculosis
2	—	2	—	—	—	—	—	—	—	54	—	—	—	—	—	—	Other tuberculosis
1	—	—	—	—	1	—	—	—	—	—	—	—	62	—	—	—	Syphilis, etc.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Syphilis
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Tabes dorsalis
1	—	—	—	—	1	—	—	—	—	—	—	—	62	—	—	—	General paralysis of insane
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Aneurysm
14	—	—	1	1	—	5	5	2	—	—	31	52	—	514	1437	1130	Cancer, all sites
1	—	—	—	1	—	—	—	—	—	—	—	52	—	—	—	—	Skin
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Tongue
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	287	—	Œsophagus
3	—	—	—	—	—	2	1	—	—	—	—	—	—	206	287	—	Stomach
9	—	—	1	—	—	3	3	2	—	—	31	—	—	309	862	1130	Other sites
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic rheumatism, etc., Gout
1	—	—	—	—	—	1	—	—	—	—	—	—	—	103	—	—	Diabetes
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism
6	—	—	—	—	—	1	2	3	—	—	—	—	—	103	575	1695	Cerebral hæmorrhage, etc.
2	—	1	1	—	—	—	—	—	—	27	31	—	—	—	—	—	Other dis. of the nervous system
8	1	—	—	2	2	1	1	1	24	—	—	103	125	103	287	565	Valvular disease of heart
13	—	—	1	1	—	5	4	2	—	—	31	52	—	514	1149	1130	Other heart disease
4	—	—	—	—	—	2	2	—	—	—	—	—	—	206	575	—	Arterio-sclerosis
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Other dis. of circulatory system
9	—	—	—	—	1	1	2	5	—	—	—	—	62	103	575	2825	Bronchitis
7	—	—	1	2	1	2	1	—	—	—	31	103	62	206	287	—	Pneumonia
1	—	—	—	—	—	1	—	—	—	—	—	—	—	103	—	—	Chronic interstitial pneumonia
8	—	1	1	1	1	2	1	1	—	27	31	52	62	206	287	565	Other dis. of respiratory system
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Ulcer of stomach
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Ulcer of duodenum
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	287	—	Appendicitis
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Hernia
1	—	—	—	—	—	1	—	—	—	—	—	—	—	103	—	—	Intestinal obstruction
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	287	—	Cirrhosis of liver
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Other dis. of digestive system
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Acute nephritis
3	—	—	2	1	—	—	—	—	—	—	62	52	—	—	—	—	Chronic nephritis
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Diseases of the prostate
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Other genito-urinary diseases
5	—	—	—	—	—	—	—	5	—	—	—	—	—	—	—	2825	Old age
3	—	—	—	1	1	—	1	—	—	—	—	52	62	—	287	—	Suicide
3	1	—	—	—	1	1	—	—	24	—	—	—	62	103	—	—	Accident
6	—	2	1	1	—	—	2	—	—	—	—	—	—	—	—	—	Other causes
13	3	7	11	10	10	27	25	20	71	187	344	517	623	2778	7184	11299	All causes
16,182	4,206	3,738	3,201	1,935	1,605	972	348	177									Years of life (Census population × 3)
—	29	53	86	81	54	108	144	83									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	832
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	79

OCCUPATIONAL GROUP 11a.—COAL MINE—WORKERS ABOVE GROUND, NOT SUPERINTENDING STAFF (049). (Durham and Northumberland.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16–	20–	25–	35–	45–	55–	65–	70 and upwards.	16–	20–	25–	35–	45–	55–	65–	70 and up.
Influenza	57	5	3	9	10	5	12	6	7	34	35	78	133	79	225	295	485
Respiratory tuberculosis	110	25	19	29	17	8	12	—	—	168	223	252	226	126	225	—	—
Other tuberculosis	23	3	4	6	2	5	2	1	—	20	47	52	27	79	38	49	—
Syphilis, etc.	17	—	1	—	6	4	5	—	1	—	12	—	80	63	94	—	69
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	4	—	—	—	1	1	2	—	—	—	—	—	13	16	38	—	—
General paralysis of insane	9	—	—	—	5	3	1	—	—	—	—	—	67	47	19	—	—
Aneurysm	4	—	1	—	—	—	2	—	1	—	12	—	—	—	38	—	69
Cancer, all sites	98	—	2	1	4	21	29	19	22	—	23	9	53	330	544	933	1525
Skin	4	—	—	—	—	1	2	—	1	—	—	—	—	16	38	—	69
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	4	—	—	—	—	1	1	2	—	—	—	—	—	16	19	98	—
Œsophagus	5	—	—	—	—	1	3	—	1	—	—	—	—	16	56	—	69
Stomach	28	—	—	—	3	5	9	3	8	—	—	—	40	79	169	147	554
Other sites	57	—	2	1	1	13	14	14	12	—	23	9	13	204	263	687	832
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	1	1	—	—	—	—	—	—	19	49	—
Diabetes	8	2	—	1	1	1	2	—	1	13	—	9	13	16	38	—	69
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	107	—	1	—	3	8	25	21	49	—	12	—	40	126	469	1031	3396
Other dis. of the nervous system	27	5	4	2	3	5	3	2	3	34	47	17	40	79	56	98	208
Valvular disease of heart	111	4	8	10	8	17	36	12	16	27	94	87	106	267	675	589	1109
Other heart disease	66	4	—	3	4	11	20	10	14	27	—	26	53	173	375	491	970
Arterio-sclerosis	55	—	—	—	—	4	6	10	35	—	—	—	—	63	113	491	2426
Other dis. of circulatory system	4	—	—	1	1	1	1	—	—	—	—	9	13	16	19	—	—
Bronchitis	98	1	1	—	3	9	24	19	41	7	12	—	40	142	450	933	2841
Pneumonia	75	7	5	12	11	9	16	7	8	47	59	104	146	142	300	344	554
Chronic interstitial pneumonia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—
Other dis. of respiratory system	24	1	—	3	4	3	9	1	3	7	—	26	53	47	169	49	208
Ulcer of stomach	1	—	1	—	—	—	—	—	—	—	12	—	—	—	—	—	—
Ulcer of duodenum	6	—	3	1	—	1	—	1	—	—	35	9	—	16	—	49	—
Appendicitis	5	—	2	2	—	—	—	1	—	—	23	17	—	—	—	49	—
Hernia	3	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	208
Intestinal obstruction	6	—	1	—	—	1	1	3	—	—	12	—	—	16	19	147	—
Cirrhosis of liver	4	—	—	—	—	—	4	—	—	—	—	—	—	—	75	—	—
Other dis. of digestive system	12	—	1	—	—	1	6	2	2	—	12	—	—	16	113	98	139
Acute nephritis	4	1	—	—	—	1	—	2	—	7	—	—	—	16	—	98	—
Chronic nephritis	35	—	1	3	3	5	9	8	6	—	12	26	40	79	169	393	416
Diseases of the prostate	8	—	—	—	—	—	1	2	5	—	—	—	—	—	19	98	347
Other genito-urinary diseases	11	—	—	1	—	1	2	4	3	—	—	9	—	16	38	196	208
Old age	65	—	—	—	—	—	—	3	62	—	—	—	—	—	—	147	4297
Suicide	12	—	1	2	—	1	4	2	2	—	12	17	—	16	75	98	139
Accident	35	8	3	7	1	3	7	2	4	54	35	61	13	47	131	98	277
Other causes	54	6	4	4	8	8	11	5	8	—	—	—	—	—	—	—	—
All causes	1,144	72	65	97	89	133	249	144	295	483	762	844	1184	2091	4671	7069	20444
Years of life (Census population × 3)	57,609	14,898	8,526	11,499	7,515	6,360	5,331	2,037	1,443								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	196	216	212	185	181	182	142	150								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,873
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	189

OCCUPATIONAL GROUP 11b.—COAL MINE—WORKERS ABOVE GROUND, NOT SUPERINTENDING STAFF (049). (Cheshire and Lancashire.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up
Influenza	20	—	—	1	8	3	6	1	1	—	—	19	162	58	162	72	103
Respiratory tuberculosis	44	5	7	7	10	8	6	—	1	102	213	130	202	155	162	—	103
Other tuberculosis	6	3	1	—	2	—	—	—	—	61	30	—	40	—	—	—	—
Syphilis, etc.	3	—	—	—	1	1	1	—	—	—	—	—	20	19	27	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	27	—	—
General paralysis of insane	2	—	—	—	1	1	—	—	—	—	—	—	20	19	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	53	—	—	1	—	4	21	12	15	—	—	19	—	77	567	864	1538
Skin	2	—	—	—	—	—	2	—	—	—	—	—	—	—	54	—	—
Lip	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	103
Tongue	7	—	—	—	—	1	3	1	2	—	—	—	—	19	81	72	205
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	14	—	—	—	—	1	5	5	3	—	—	—	—	19	135	360	308
Other sites	29	—	—	1	—	2	11	6	9	—	—	19	—	39	297	432	923
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	1	—	—	—	—	—	—	—	27	—	—
Diabetes	4	—	—	1	1	—	1	1	—	—	—	19	20	—	27	72	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	36	—	—	—	—	2	12	11	11	—	—	—	—	39	324	792	1128
Other dis. of the nervous system	21	3	2	—	3	5	3	3	2	61	61	—	61	97	81	216	205
Valvular disease of heart	41	—	2	5	3	7	9	8	7	—	61	93	61	136	243	576	718
Other heart disease	33	—	1	1	3	1	7	9	11	—	30	19	61	19	189	648	1128
Arterio-sclerosis	30	—	—	—	—	2	8	7	13	—	—	—	—	39	216	504	1333
Other dis. of circulatory system	4	—	—	—	—	—	2	1	1	—	—	—	—	—	54	72	103
Bronchitis	73	—	2	—	1	8	17	10	35	—	61	—	20	155	459	720	3590
Pneumonia	39	4	3	—	6	6	12	5	3	81	91	—	121	116	324	360	308
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	3	—	—	—	—	2	—	1	—	—	—	—	—	39	—	72	—
Ulcer of stomach	6	—	—	—	—	3	2	1	—	—	—	—	—	58	54	72	—
Ulcer of duodenum	1	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—	—
Appendicitis	3	1	—	—	—	1	—	—	1	20	—	—	—	19	—	—	103
Hernia	4	—	—	—	—	1	1	—	2	—	—	—	—	19	27	—	205
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	2	—	—	—	—	—	2	—	—	—	—	—	—	—	54	—	—
Other dis. of digestive system	11	1	—	3	2	4	1	—	—	20	—	56	40	77	27	—	—
Acute nephritis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	72	—
Chronic nephritis	12	—	—	1	2	1	2	3	3	—	—	19	40	19	54	216	308
Diseases of the prostate	5	—	—	—	—	—	—	1	4	—	—	—	—	—	—	72	410
Other genito-urinary diseases	3	—	—	—	—	1	—	1	1	—	—	—	—	19	—	72	103
Old age	21	—	—	—	—	—	—	1	20	—	—	—	—	—	—	72	2051
Suicide	9	—	—	—	1	3	2	1	2	—	—	—	20	58	54	72	205
Accident	25	—	1	—	6	4	4	5	5	—	30	—	121	77	108	360	513
Other causes	23	—	—	2	6	5	4	1	5	—	—	—	—	—	—	—	—
All causes	537	17	19	22	55	73	124	84	143	346	579	408	1113	1413	3347	6048	14667
Years of life (Census population × 3)	29,763	4,911	3,282	5,394	4,941	5,166	3,705	1,389	975								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.		140	164	102	174	122	130	121	108								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,343

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 133

OCCUPATIONAL GROUP 11c.—COAL MINE—WORKERS ABOVE GROUND, NOT SUPERINTENDING STAFF (049). (Yorkshire, West Riding.)

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	36	2	1	5	4	3	7	7	7	24	19	53	45	35	110	301	495
Respiratory tuberculosis	61	8	8	12	9	11	9	2	2	94	148	126	100	129	142	86	142
Other tuberculosis	7	3	2	—	1	1	—	—	—	35	37	—	11	12	—	—	—
Syphilis, etc.	4	—	—	—	2	—	2	—	—	—	—	—	22	—	32	—	—
Syphilis	1	—	—	—	1	—	—	—	—	—	—	—	11	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	16	—	—
General paralysis of insane	2	—	—	—	1	—	1	—	—	—	—	—	11	—	16	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	79	1	1	1	4	12	23	22	15	12	19	11	45	140	362	946	1062
Skin	2	—	—	—	—	1	—	—	1	—	—	—	—	12	—	—	71
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	2	—	—	—	—	—	1	—	1	—	—	—	—	—	16	—	71
Œsophagus	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	43	—
Stomach	18	—	—	—	—	2	7	5	4	—	—	—	—	23	110	215	283
Other sites	56	1	1	1	4	9	15	16	9	12	19	11	45	105	236	688	637
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	142
Diabetes	7	1	—	—	1	1	—	3	1	12	—	—	11	12	—	129	71
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	75	—	—	—	3	11	18	16	27	—	—	—	33	129	284	688	1911
Other dis. of the nervous system	25	3	2	3	1	4	5	2	5	35	37	32	11	47	79	86	354
Valvular disease of heart	66	4	—	3	4	8	20	9	18	47	—	32	45	94	315	387	1274
Other heart disease	39	1	—	3	—	4	12	7	12	12		32		47	189	301	849
Arterio-sclerosis	36	—	—	—	—	—	8	12	16	—	—			—	126	516	1132
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	97	—	1	1	5	6	25	15	44	—	19	11	56	70	394	645	3114
Pneumonia	66	5	2	3	7	10	19	7	13	59	37	32	78	117	299	301	920
Chronic interstitial pneumonia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	43	—
Other dis. of respiratory system	9	—	1	—	—	3	1	1	3	—	19	—	—	35	16	43	212
Ulcer of stomach	3	1	—	—	1	—	—	1	—	12	—	—	11	—	—	43	—
Ulcer of duodenum	2	—	—	1	—	1	—	—	—	—	—	11	—	12	—	—	—
Appendicitis	4	2	1	—	1	—	—	—	—	24	19	—	11	—	—	—	—
Hernia	2	—	—	—	—	1	1	—	—	—	—	—	—	12	16	—	—
Intestinal obstruction	4	1	—	1	—	1	1	—	—	12	—	11	—	12	16	—	—
Cirrhosis of liver	7	—	—	—	—	2	1	1	3	—	—	—	—	23	16	43	212
Other dis. of digestive system	7	—	—	—	—	1	2	1	3	—	—	—	—	12	32	43	212
Acute nephritis	2	—	—	—	—	—	2	—	—	—	—	—	—	—	32	—	—
Chronic nephritis	23	—	1	—	1	6	6	5	4	—	19	—	11	70	95	215	283
Diseases of the prostate	8	—	—	—	—	—	4	2	2	—	—	—	—	—	63	86	142
Other genito-urinary diseases	6	—	—	—	—	2	—	3	1	—	—	—	—	23	—	129	71
Old age	41	—	—	—	—	—	—	2	39	—	—	—	—	—	—	86	2760
Suicide	10	—	1	1	2	1	3	2	—	—	19	11	22	12	47	86	—
Accident	43	5	—	8	6	9	7	3	5	59	—	84	67	105	110	129	354
Other causes	27	—	1	3	5	6	6	1	5	—	—	—	—	—	—	—	—
All causes	799	37	22	45	57	104	182	125	227	437	408	473	635	1216	2867	5376	16065
Years of life (Census population × 3)	50,994	8,475	5,394	9,510	8,979	8,550	6,348	2,325	1,413								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	177	116	119	99	105	111	108	118								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,087

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 109

OCCUPATIONAL GROUP 11d.—COAL MINE—WORKERS ABOVE GROUND, NOT SUPERINTENDING STAFF (049). (Derbyshire and Nottinghamshire, excluding the S. Derbyshire Coalfield.*)

Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.	CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
8	—	1	—	1	1	2	3	—	—	26	—	17	17	41	174	—	Influenza
36	4	6	10	6	4	3	1	2	71	156	157	100	67	62	58	205	Respiratory tuberculosis
3	—	—	1	—	1	—	1	—	—	—	16	—	17	—	58	—	Other tuberculosis
9	—	—	2	1	—	3	1	2	—	—	31	17	—	62	58	205	Syphilis, etc.
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	58	—	Syphilis
3	—	—	1	—	—	1	—	1	—	—	16	—	—	21	—	103	Tabes dorsalis
5	—	—	1	1	—	2	—	1	—	—	16	17	—	41	—	103	General paralysis of insane
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Aneurysm
42	—	—	1	3	8	18	4	8	—	—	16	50	133	373	231	821	Cancer, all sites
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	103	Skin
1	—	—	—	—	1	—	—	—	—	—	—	—	17	—	—	—	Lip
3	—	—	—	—	—	2	—	1	—	—	—	—	—	41	—	103	Tongue
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Œsophagus
12	—	—	—	1	3	5	2	1	—	—	—	17	50	104	116	103	Stomach
25	—	—	1	2	4	11	2	5	—	—	16	33	67	228	116	513	Other sites
3	—	—	—	—	1	—	1	1	—	—	—	—	17	—	58	103	Chronic rheumatism, etc., Gout
2	—	—	—	—	—	2	—	—	—	—	—	—	—	41	—	—	Diabetes
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism
43	—	—	—	—	3	7	9	24	—	—	—	—	50	145	521	2462	Cerebral hæmorrhage, etc.
16	2	3	4	1	2	4	—	—	35	78	63	17	33	83	—	—	Other dis. of the nervous system
29	1	—	2	1	3	9	7	6	18	—	31	17	50	186	405	615	Valvular disease of heart
40	—	—	1	1	3	10	8	17	—	—	16	17	50	207	463	1744	Other heart disease
23	—	—	—	1	—	3	3	16	—	—	—	17	—	62	174	1641	Arterio-sclerosis
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Other dis. of circulatory system
59	—	2	1	5	3	13	7	28	—	52	16	83	50	269	405	2872	Bronchitis
30	2	—	2	5	7	6	2	6	35	—	31	83	117	124	116	615	Pneumonia
1	—	—	—	—	1	—	—	—	—	—	—	—	17	—	—	—	Chronic interstitial pneumonia
4	—	—	1	1	1	—	—	1	—	—	16	17	17	—	—	103	Other dis. of respiratory system
4	—	1	1	1	1	—	—	—	—	26	16	17	17	—	—	—	Ulcer of stomach
3	—	1	—	—	—	1	1	—	—	26	—	—	—	21	58	—	Ulcer of duodenum
1	—	—	—	—	—	1	—	—	—	—	—	—	—	21	—	—	Appendicitis
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	58	—	Hernia
5	—	—	—	1	1	1	—	2	—	—	—	17	17	21	—	205	Intestinal obstruction
3	—	—	—	1	—	1	1	—	—	—	—	17	—	21	58	—	Cirrhosis of liver
7	—	—	—	1	—	2	1	3	—	—	—	17	—	41	58	308	Other dis. of digestive system
1	—	—	—	—	—	1	—	—	—	—	—	—	—	21	—	—	Acute nephritis
14	1	—	1	2	2	—	5	3	18	—	16	33	33	—	289	308	Chronic nephritis
2	—	—	—	—	—	1	1	—	—	—	—	—	—	21	58	—	Diseases of the prostate
7	—	—	1	—	1	2	1	2	—	—	16	—	17	41	58	205	Other genito-urinary diseases
52	—	—	—	—	—	1	1	50	—	—	—	—	—	21	58	5128	Old age
4	—	—	2	—	—	1	—	1	—	—	31	—	—	21	—	103	Suicide
22	5	1	3	2	4	2	2	3	88	26	47	33	67	41	116	308	Accident
18	2	1	1	3	4	3	2	2	—	—	—	—	—	—	—	—	Other causes
492	17	16	34	37	51	97	63	177	300	416	533	617	850	2010	3646	18154	All causes
35,418	5,673	3,846	6,375	5,994	6,000	4,827	1,728	975									Years of life (Census population × 3)
—	121	118	134	97	74	78	73	134									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 885

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 87

OCCUPATIONAL GROUP 11e.—COAL MINE—WORKERS ABOVE GROUND, NOT SUPERINTENDING STAFF (049).

(Staffordshire, Worcestershire, Warwickshire, Shropshire, Leicestershire, and the S. Derbyshire Coalfield.*)

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	21	2	—	3	3	4	3	2	4	31	—	50	52	69	63	108	324
Respiratory tuberculosis	44	4	6	9	4	11	8	1	1	61	146	150	69	189	167	54	81
Other tuberculosis	7	1	3	1	2	—	—	—	—	15	73	17	34	—	—	—	—
Syphilis, etc.	6	—	—	—	2	2	—	1	1	—	—	—	34	34	—	54	81
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	54	—
General paralysis of insane	3	—	—	—	2	1	—	—	—	—	—	—	34	17	—	—	—
Aneurysm	2	—	—	—	—	1	—	—	1	—	—	—	—	17	—	—	81
Cancer, all sites	54	2	—	1	4	8	17	10	12	31	—	17	69	138	355	540	971
Skin	3	—	—	—	—	—	1	—	2	—	—	—	—	—	21	—	162
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	—	1	—	—	—	—	—	—	—	21	—	—
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	12	—	—	—	—	2	5	2	3	—	—	—	—	34	104	108	243
Other sites	38	2	—	1	4	6	10	8	7	31	—	17	69	103	209	432	566
Chronic rheumatism, etc., Gout	3	—	—	—	—	—	—	1	2	—	—	—	—	—	—	54	162
Diabetes	4	—	—	—	—	—	3	—	1	—	—	—	—	—	63	—	81
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	47	—	—	1	1	2	5	9	29	—	—	17	17	34	104	486	2346
Other dis. of the nervous system	20	3	1	1	—	4	6	2	3	46	24	17	—	69	125	108	243
Valvular disease of heart	33	—	2	1	3	7	8	5	7	—	49	17	52	120	167	270	566
Other heart disease	50	1	—	3	3	3	12	8	20	15	—	50	52	52	250	432	1618
Arterio-sclerosis	20	—	—	—	—	—	2	6	12	—	—	—	—	—	42	324	971
Other dis. of circulatory system	1	—	1	—	—	—	—	—	—	—	24	—	—	—	—	—	—
Bronchitis	66	1	—	—	1	4	11	16	33	15	—	—	17	69	229	864	2670
Pneumonia	37	1	—	2	3	7	10	3	11	15	—	33	52	120	209	162	890
Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	7	—	—	—	—	—	3	3	1	—	—	—	—	—	63	162	81
Ulcer of stomach	3	—	1	—	—	1	1	—	—	—	24	—	—	17	21	—	—
Ulcer of duodenum	3	—	—	1	—	1	—	1	—	—	—	17	—	17	—	54	—
Appendicitis	1	—	—	—	—	1	—	—	—	—	—	—	—	17	—	—	—
Hernia	2	—	—	—	—	2	—	—	—	—	—	—	—	34	—	—	—
Intestinal obstruction	4	—	—	—	—	1	2	—	1	—	—	—	—	17	42	—	81
Cirrhosis of liver	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	54	—
Other dis. of digestive system	10	2	—	1	—	1	2	1	3	31	—	17	—	17	42	54	243
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	10	—	1	—	—	1	4	4	—	—	24	—	—	17	83	216	—
Diseases of the prostate	5	—	—	—	—	—	1	—	4	—	—	—	—	—	21	—	324
Other genito-urinary diseases	7	—	—	1	1	1	2	1	1	—	—	17	17	17	42	54	81
Old age	49	—	—	—	—	—	—	3	46	—	—	—	—	—	—	162	3722
Suicide	4	—	—	—	—	2	1	1	—	—	—	—	—	34	21	54	—
Accident	20	4	2	2	3	3	2	3	1	61	49	33	52	52	42	162	81
Other causes	30	1	2	4	1	4	7	3	8	—	—	—	—	—	—	—	—
All causes	569	22	19	31	31	70	110	85	201	337	461	518	532	1204	2295	4592	16262
Years of life (Census population × 3)	36,141	6,522	4,119	5,982	5,823	5,814	4,794	1,851	1,236								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	136	131	130	83	104	89	92	120								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 990

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 98

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* For the constitution of the South Derbyshire Coalfield, *see* page 98.

OCCUPATIONAL GROUP 11f.—COAL MINE—WORKERS ABOVE GROUND, NOT SUPERINTENDING STAFF (049).
(Glamorganshire, Monmouthshire, Carmarthenshire, Pembrokeshire, and Brecknockshire.)

Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								CAUSE OF DEATH.
All Ages 16 and upwards.	16—	20 –	25 –	35 –	45 –	55 –	65 –	70 and upwards.	16 –	20 –	25 –	35 –	45 –	55 –	65 –	70 and up.	For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.
52	2	3	3	9	7	10	7	11	30	40	22	72	60	126	273	631	Influenza .. ..
91	5	11	18	28	14	10	3	2	75	147	135	224	119	126	117	115	Respiratory tuberculosis ..
11	1	5	2	2	1	—	—	—	15	67	15	16	9	—	—	—	Other tuberculosis .. ..
18	—	—	1	6	8	2	1	—	—	—	7	48	68	25	39	—	Syphilis, etc. .. .. ..
1	—	—	—	—		1	—	—	—	—	—	—	—	13	—	—	Syphilis .. .. ..
2	—	—	—	—	2	—	—	—	—	—	—	—	17	—	—	—	Tabes dorsalis .. .. ..
13	—	—	1	6	5	1	—	—	—	—	7	48	43	13	—	—	General paralysis of insane ..
2	—	—	—	—	1	—	1	—	—	—	—	—	9	—	39	—	Aneurysm .. .. ..
84	—	2	1	2	13	37	23	6	—	27	7	16	111	465	896	344	Cancer, all sites .. .. ..
4	—	—	—	—	1	1	—	2	—	—	—	—	9	13	—	115	Skin .. ..
1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	39	—	Lip .. ..
8	—	—	—	—	1	3	4	—	—	—	—	—	9	38	156	—	Tongue .. ..
2	—	—	—	—	—	1	—	1	—	—	—	—	—	13	—	57	Œsophagus .. .. ..
25	—	—	—	1	7	10	6	1	—	—	—	8	60	126	234	57	Stomach .. .. ..
44	—	2	1	1	4	22	12	2	—	27	7	8	34	276	467	115	Other sites .. .. ..
2	—	—	—	—	—	2	—	—	—	—	—	—	—	25	—	—	Chronic rheumatism, etc., Gout
4	—	—	1	1	—	2	—	—	—	—	7	8	—	25	—	—	Diabetes .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism .. ..
85	—	—	—	2	10	23	19	31	—	—	—	16	85	289	740	1779	Cerebral hæmorrhage, etc. ..
32	2	—	3	2	5	13	5	2	30	—	22	16	43	163	195	115	Other dis. of the nervous system
58	2	—	3	2	19	17	7	8	30	—	22	16	162	214	273	459	Valvular disease of heart ..
73	—	2	2	4	13	22	13	17	—	27	15	32	111	276	506	975	Other heart disease .. ..
23	—	—	—	2	2	5	3	11	—	—	—	16	17	63	117	631	Arterio-sclerosis .. .. ..
3	—	—	—	—	—	1	1	1	—	—	—	—	—	13	39	57	Other dis. of circulatory system
114	—	—	4	7	6	37	22	38	—	—	30	56	51	465	857	2180	Bronchitis.. .. .. ..
65	2	3	4	12	19	12	2	11	30	40	30	96	162	151	78	631	Pneumonia .. .. ..
2	—	—	—	—	1	1	—	—	—	—	—	—	9	13	—	—	Chronic interstitial pneumonia ..
24	1	—	1	3	4	7	4	4	15	—	7	24	34	88	156	229	Other dis. of respiratory system
4	—	—	—	—	1	2	1	—	—	—	—	—	9	25	39	—	Ulcer of stomach .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Ulcer of duodenum .. ..
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Appendicitis .. .. ..
4	—	—	1	—	1	—	1	1	—	—	7	—	9	—	39	57	Hernia .. ..
4	—	—	—	—	1	—	1	2	—	—	—	—	9	—	39	115	Intestinal obstruction .. ..
6	—	—	—	—	2	3	1	—	—	—	—	—	17	38	39	—	Cirrhosis of liver .. .. ..
21	1	1	1	—	2	6	7	3	15	13	7	—	17	75	273	172	Other dis. of digestive system ..
6	—	—	—	2	1	—	3	—	—	—	—	16	9	—	117	—	Acute nephritis .. .. ..
22	—	—	1	4	2	10	3	2	—	—	7	32	17	126	117	115	Chronic nephritis.. .. ..
4	—	—	—	—	—	—	—	4	—	—	—	—	—	—	—	229	Diseases of the prostate ..
8	—	1	—	2	1	—	1	3	—	13	—	16	9	—	39	172	Other genito-urinary diseases ..
57	—	—	—	—	—	—	4	53	—	—	—	—	—	—	156	3041	Old age .. ..
16	—	1	1	2	5	5	2	—	—	13	7	16	43	63	78	—	Suicide .. ..
75	3	4	6	11	21	14	10	6	45	53	45	88	179	176	389	344	Accident .. ..
49	5	2	8	10	11	6	2	5	—	—	—	—	—	—	—	—	Other causes .. .. ..
1,017	24	35	61	113	170	247	146	221	360	467	456	903	1445	3103	5685	12679	All causes .. .. ..
64,077	6,672	7,500	13,365	12,507	11,763	7,959	2,568	1,743									Years of life (Census population × 3) .. ..
—	146	133	114	141	125	121	114	93									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.

All Causes—ages 20-65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,253
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 125

OCCUPATIONAL GROUP 12a.—IRON ORE MINE—UNDERGROUND WORKERS, NOT SUPERINTENDING STAFF (054, part*).
(Cumberland and Lancashire.)

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20 —	25 –	35 –	45 –	55—	65 –	70 and upwards.	16	20—	25 –	35 –	45—	55—	65	70 and up.
Influenza	13	—	—	2	2	3	2	1	3	—	—	48	53	112	133	180	549
Respiratory tuberculosis ..	25	—	1	6	5	8	2	1	2	—	53	143	132	299	133	180	366
Other tuberculosis	6	—	2	3	—	—	1	—	—	—	106	71	—	—	66	—	—
Syphilis, etc.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	23	—	—	—	—	2	4	9	8	—	—	—	—	75	266	1622	1465
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	180	183
Tongue	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	180	—
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	5	—	—	—	—	1	1	2	1	—	—	—	—	37	66	360	183
Other sites	15	—	—	—	—	1	3	5	6	—	—	—	—	37	199	901	1099
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	180	—
Diabetes	4	—	—	1	1	—	—	1	1	—	—	24	26	—	—	180	183
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	26	—	1	—	1	2	3	3	16	—	53	—	26	75	199	541	2930
Other dis. of the nervous system	7	—	—	2	1	2	—	—	2	—	—	48	26	75	—	—	366
Valvular disease of heart ..	16	—	—	1	1	1	2	5	6	—	—	24	26	37	133	901	1099
Other heart disease	11	—	—	—	—	1	—	—	10	—	—	—	—	37	—	—	1832
Arterio-sclerosis	9	—	—	—	—	—	2	—	7	—	—	—	—	—	133	—	1282
Other dis. of circulatory system	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	183
Bronchitis..	38	—	—	—	—	—	5	7	26	—	—	—	—	—	332	1261	4762
Pneumonia	14	—	1	2	2	2	1	—	6	—	53	48	53	75	66	—	1099
Chronic interstitial pneumonia ..	4	—	—	—	1	3	—	—	—	—	—	—	26	112	—	—	—
Other dis. of respiratory system	5	—	1	—	—	1	1	1	1	—	53	—	—	37	66	180	183
Ulcer of stomach	2	—	—	—	—	1	—	—	1	—	—	—	—	37	—	—	183
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	2	—	1	—	1	—	—	—	—	—	53	—	26	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system ..	3	—	—	—	1	—	1	1	—	—	—	—	26	—	66	180	—
Acute nephritis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	66	—	—
Chronic nephritis..	3	—	—	—	—	2	1	—	—	—	—	—	—	75	66	—	—
Diseases of the prostate ..	5	—	—	—	—	—	—	1	4	—	—	—	—	—	—	180	733
Other genito-urinary diseases ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	19	—	—	—	—	—	1	—	18	—	—	—	—	—	66	—	3297
Suicide	6	—	—	—	—	3	—	2	1	—	—	—	—	112	—	360	183
Accident	13	—	2	1	4	2	3	1	—	—	106	24	106	75	199	180	—
Other causes	15	1	1	2	2	2	5	1	1	—	—	—	—	—	—	—	—
All causes	272	1	10	20	22	35	35	35	114	113	531	476	582	1306	2324	6306	20879
Years of life (Census population × 3)	16,044	888	1,884	4,203	3,783	2,679	1,506	555	546								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	46	151	119	91	113	90	126	154								

All Causes—ages 20-65 years.
Comparative Mortality Figure (Standardized Death-rate) 1,031
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 103

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* See note * on page 12.

OCCUPATIONAL GROUP 12b.—IRON ORE MINE—UNDERGROUND WORKERS, NOT SUPERINTENDING STAFF (054, part*). (Staffordshire and the North Riding of Yorkshire.)

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	15	1	3	2	4	1	3	—	1	58	134	45	89	34	178	—	222
Respiratory tuberculosis ..	14	1	—	4	4	3	2	—	—	58	—	90	89	101	119	—	—
Other tuberculosis	2	—	—	1	1	—	—	—	—	—	—	22	22	—	—	—	—
Syphilis, etc.	2	—	—	—	—	1	—	1	—	—	—	—	—	34	—	190	—
Syphilis..	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	190	—
Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General paralysis of insane ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	1	—	—	—	—	1	—	—	—	—	—	—	—	34	—	—	—
Cancer, all sites	23	—	2	—	—	2	10	3	6	—	89	—	—	67	594	571	1333
Skin	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	190	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	1	—	—	—	—	—	1	—	—	—	—	—	—	—	59	—	—
Œsophagus	1	—	—	—	—	1	—	—	—	—	—	—	—	34	—	—	—
Stomach	6	—	—	—	—	—	4	1	1	—	—	—	—	—	238	190	222
Other sites	14	—	2	—	—	1	5	1	5	—	89	—	—	34	297	190	1111
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	190	222
Diabetes	2	—	—	1	—	—	—	1	—	—	—	22	—	—	—	190	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	16	—	—	1	—	1	2	3	9	—	—	22	—	34	119	571	2000
Other dis. of the nervous system	4	—	—	1	1	1	1	—	—	—	—	22	22	34	59	—	—
Valvular disease of heart ..	16	—	—	1	—	1	3	4	7	—	—	22	—	34	178	762	1556
Other heart disease	15	—	—	—	—	2	4	2	7	—	—	—	—	67	238	381	1556
Arterio-sclerosis	19	—	—	—	—	1	4	3	11	—	—	—	—	34	238	571	2444
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis..	26	—	—	—	1	1	1	4	19	—	—	—	22	34	59	762	4222
Pneumonia	13	—	—	1	2	3	3	2	2	—	—	22	44	101	178	381	444
Chronic interstitial pneumonia ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	10	1	1	1	—	1	1	—	5	58	45	22	—	34	59	—	1111
Ulcer of stomach	1	—	—	—	1	—	—	—	—	—	—	—	22	—	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	1	—	—	1	—	—	—	—	—	—	—	22	—	—	—	—	—
Hernia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intestinal obstruction	1	1	—	—	—	—	—	—	—	58	—	—	—	—	—	—	—
Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of digestive system ..	4	—	—	1	1	—	—	1	1	—	—	22	22	—	—	190	222
Acute nephritis	1	—	—	—	1	—	—	—	—	—	—	—	22	—	—	—	—
Chronic nephritis	7	—	—	—	—	1	—	1	5	—	—	—	—	34	—	190	1111
Diseases of the prostate ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other genito-urinary diseases ..	3	—	—	—	—	1	—	—	2	—	—	—	—	34	—	—	444
Old age	20	—	—	—	—	—	—	2	18	—	—	—	—	—	—	381	4000
Suicide	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	190	—
Accident	10	—	1	1	6	1	1	—	—	—	45	22	133	34	59	—	—
Other causes	7	—	—	—	1	2	1	1	2	—	—	—	—	—	—	—	—
All causes	235	4	7	16	23	23	36	30	96	231	312	359	510	774	2139	5714	21333
Years of life (Census population × 3) ..	18,567	1,728	2,244	4,452	4,512	2,973	1,683	525	450								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	94	89	90	80	67	83	114	157								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	792
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	80

OCCUPATIONAL GROUP 14a.—MINERS AND QUARRIERS OF IGNEOUS ROCKS (NOT GRANITE) (072).†

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	3	—	—	—	1	—	2	—	—	—	—	—	45	—	147	—	—
Respiratory tuberculosis ..	9	—	1	—	2	1	4	—	1	—	93	—	90	50	293	—	298
Other tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis, etc.	3	—	—	—	2	1	—	—	—	—	—	—	90	50	—	—	—
Syphilis..	1	—	—	—	1	—	—	—	—	—	—	—	45	—	—	—	—
Tabes dorsalis	1	—	—	—	—	1	—	—	—	—	—	—	—	50	—	—	—
General paralysis of insane ..	1	—	—	—	1	—	—	—	—	—	—	—	45	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	12	—	—	—	2	1	2	2	5	—	—	—	90	50	147	427	1488
Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Œsophagus	1	—	—	—	1	—	—	—	—	—	—	—	45	—	—	—	—
Stomach	7	—	—	—	1	—	—	2	4	—	—	—	45	—	—	427	1190
Other sites	4	—	—	—	—	1	2	—	1	—	—	—	—	50	147	—	298
Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diabetes	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	427	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	13	—	—	—	—	—	1	3	9	—	—	—	—	—	73	641	2679
Other dis. of the nervous system	2	—	—	1	—	—	—	1	—	—	—	48	—	—	—	214	—
Valvular disease of heart ..	8	—	—	—	2	2	2	—	2	—	—	—	90	101	147	—	595
Other heart disease	9	—	—	—	1	—	—	3	5	—	—	—	45	—	—	641	1488
Arterio-sclerosis	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	298
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis..	12	—	—	—	—	—	—	5	7	—	—	—	—	—	—	1068	2083
Pneumonia	7	—	—	1	1	—	—	3	2	—	—	48	45	—	—	641	595
Chronic interstitial pneumonia ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other dis. of respiratory system	2	—	—	—	1	1	—	—	—	—	—	—	45	50	—	—	—
Ulcer of stomach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hernia	1	—	—	—	—	1	—	—	—	—	—	—	—	50	—	—	—
Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of liver	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	298
Other dis. of digestive system ..	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	298
Acute nephritis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chronic nephritis	3	—	—	—	—	—	1	1	1	—	—	—	—	—	73	214	298
Diseases of the prostate ..	1	—	—	—	—	—	1	—	—	—	—	—	—	—	73	—	—
Other genito-urinary diseases ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	17	—	—	—	—	—	—	—	17	—	—	—	—	—	—	—	5060
Suicide	2	—	—	—	—	—	1	—	1	—	—	—	—	—	73	—	298
Accident	8	—	2	—	—	3	—	2	1	—	186	—	—	151	—	427	298
Other causes	11	—	—	1	1	3	2	1	3	—	—	—	—	—	—	—	—
All causes	128	—	3	3	13	13	16	23	57	—	279	145	584	654	1172	4915	16964
Years of life (Census population × 3) ..	10,263	735	1,074	2,070	2,226	1,989	1,365	468	336								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	—	79	36	91	57	46	98	125								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	573
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	57

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* *See* note * on page 12.

† As represented by Stone Miners and Quarriers in Leicestershire, Merionethshire, and Carnarvonshire.

OCCUPATIONAL GROUP 14b.—LIMESTONE MINERS AND QUARRIERS (072).*

CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	17	—	1	—	2	4	3	1	6	—	30	—	30	70	80	92	683
Respiratory tuberculosis	43	2	6	4	9	11	9	—	2	92	183	65	133	193	239	—	228
Other tuberculosis	2	—	—	—	1	1	—	—	—	—	—	—	15	18	—	—	—
Syphilis, etc.	4	—	—	—	1	1	1	1	—	—	—	—	15	18	27	92	—
Syphilis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	27	—	—
Tabes dorsalis	3	—	—	—	1	1	—	1	—	—	—	—	15	18	—	92	—
General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cancer, all sites	42	—	—	—	1	9	11	10	11	—	—	—	15	158	292	918	1251
Skin	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	92	114
Lip	3	—	—	—	—	1	—	—	2	—	—	—	—	18	—	—	228
Tongue	6	—	—	—	—	2	2	1	1	—	—	—	—	35	53	92	114
Œsophagus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stomach	10	—	—	—	1	2	2	3	2	—	—	—	15	35	53	275	228
Other sites	21	—	—	—	—	4	7	5	5	—	—	—	—	70	186	459	569
Chronic rheumatism, etc., Gout	4	—	—	—	—	—	2	1	1	—	—	—	—	—	53	92	114
Diabetes	3	—	—	—	—	—	2	—	1	—	—	—	—	—	53	—	114
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	29	—	—	—	—	5	5	2	17	—	—	—	—	88	133	184	1934
Other dis. of the nervous system	10	—	—	1	3	1	1	1	3	—	—	16	44	18	27	92	341
Valvular disease of heart	26	—	3	1	2	2	6	—	12	—	91	16	30	35	159	—	1365
Other heart disease	19	—	—	4	1	—	2	4	8	—	—	65	15	—	53	367	910
Arterio-sclerosis	28	—	—	—	—	—	7	4	17	—	—	—	—	—	186	367	1934
Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	27	—	—
Bronchitis	31	—	—	—	1	2	7	3	18	—	—	—	15	35	186	275	2048
Pneumonia	28	—	—	4	4	8	3	7	2	—	—	65	59	141	80	643	228
Chronic interstitial pneumonia	1	—	—	—	—	—	1	—	—	—	—	—	—	—	27	—	—
Other dis. of respiratory system	4	—	—	—	1	1	—	2	—	—	—	—	15	18	—	184	—
Ulcer of stomach	3	—	1	—	1	—	—	1	—	—	30	—	15	—	—	92	—
Ulcer of duodenum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis	2	1	1	—	—	—	—	—	—	46	30	—	—	—	—	—	—
Hernia	4	—	—	—	1	1	1	—	1	—	—	—	15	18	27	—	114
Intestinal obstruction	4	—	1	—	—	—	1	—	2	—	30	—	—	—	27	—	228
Cirrhosis of liver	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	114
Other dis. of digestive system	7	—	—	—	—	1	2	2	2	—	—	—	—	18	53	184	228
Acute nephritis	1	1	—	—	—	—	—	—	—	46	—	—	—	—	—	—	—
Chronic nephritis	9	1	—	—	1	1	1	4	1	46	—	—	15	18	27	367	114
Diseases of the prostate	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	92	—
Other genito-urinary diseases	4	—	—	—	—	—	—	2	2	—	—	—	—	—	—	184	228
Old age	32	—	—	—	—	—	—	—	32	—	—	—	—	—	—	—	3641
Suicide	5	—	—	1	1	1	—	1	1	—	—	16	15	18	—	92	114
Accident	33	3	2	9	6	7	6	—	—	139	61	146	89	123	159	—	—
Other causes	23	—	1	1	4	5	7	1	4	—	—	—	—	—	—	—	—
All causes	421	8	16	25	40	61	79	48	144	369	488	405	592	1072	2097	4408	16382
Years of life (Census population × 3)	29,808	2,166	3,279	6,177	6,762	5,688	3,768	1,089	879								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	149	139	102	93	93	82	88	121								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	918
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	91

OCCUPATIONAL GROUP 14c.—SANDSTONE MINERS AND QUARRIERS (072).†

CAUSE OF DEATH.	Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	Mean Annual Death-rate per 100,000. 16—	20—	25—	35—	45—	55—	65—	70 and up.
Influenza	9	—	—	1	—	—	4	2	2	—	—	54	—	—	191	324	351
Respiratory tuberculosis	38	—	1	2	9	15	9	2	—	—	122	108	279	519	430	324	—
Other tuberculosis	4	—	—	—	1	2	1	—	—	—	—	—	31	69	48	—	—
Syphilis, etc.	5	—	—	—	1	—	3	—	1	—	—	—	31	—	143	—	175
Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tabes dorsalis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	48	—	—
General paralysis of insane	3	—	—	—	1	—	2	—	—	—	—	—	31	—	96	—	—
Aneurysm	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	175
Cancer, all sites	26	—	—	—	—	4	8	6	8	—	—	—	—	138	382	971	1404
Skin	3	—	—	—	—	—	1	—	2	—	—	—	—	—	48	—	351
Lip	1	—	—	—	—	—	1	—	—	—	—	—	—	—	48	—	—
Tongue	2	—	—	—	—	—	1	1	—	—	—	—	—	—	48	162	—
Œsophagus	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	162	—
Stomach	5	—	—	—	—	1	1	1	2	—	—	—	—	35	48	162	351
Other sites	14	—	—	—	—	3	4	3	4	—	—	—	—	104	191	485	702
Chronic rheumatism, etc., Gout	2	—	—	—	—	—	1	—	1	—	—	—	—	—	48	—	175
Diabetes	4	—	—	—	2	—	1	1	—	—	—	—	62	—	48	162	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc.	23	—	—	—	—	—	5	2	16	—	—	—	—	—	239	324	2807
Other dis. of the nervous system	7	—	—	—	1	1	1	1	3	—	—	—	31	35	48	162	526
Valvular disease of heart	29	—	—	2	1	4	12	7	3	—	—	108	31	138	573	1133	526
Other heart disease	22	—	—	1	—	1	9	5	6	—	—	54	—	35	430	809	1053
Arterio-sclerosis	29	—	—	—	—	—	7	7	15	—	—	—	—	—	334	1133	2632
Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis	50	—	—	—	—	1	14	18	17	—	—	—	—	35	669	2913	2982
Pneumonia	29	1	—	3	6	5	8	5	1	245	—	161	186	173	382	809	175
Chronic interstitial pneumonia	6	—	—	—	1	—	4	—	1	—	—	—	31	—	191	—	175
Other dis. of respiratory system	5	—	1	—	—	1	—	1	2	—	122	—	—	35	—	162	351
Ulcer of stomach	3	—	—	—	2	—	1	—	—	—	—	—	62	—	48	—	—
Ulcer of duodenum	1	—	—	—	—	1	—	—	—	—	—	—	—	35	—	—	—
Appendicitis	2	—	—	—	1	1	—	—	—	—	—	—	31	35	—	—	—
Hernia	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	175
Intestinal obstruction	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	175
Cirrhosis of liver	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	162	—
Other dis. of digestive system	6	—	—	—	—	1	1	1	3	—	—	—	—	35	48	162	526
Acute nephritis	2	—	—	—	—	1	—	—	1	—	—	—	—	35	—	—	175
Chronic nephritis	10	—	—	—	—	—	4	4	2	—	—	—	—	—	191	647	351
Diseases of the prostate	2	—	—	—	—	—	1	—	1	—	—	—	—	—	48	—	175
Other genito-urinary diseases	2	—	—	—	—	—	2	—	—	—	—	—	—	—	96	—	—
Old age	27	—	—	—	—	—	—	2	25	—	—	—	—	—	—	324	4386
Suicide	6	—	—	1	—	2	2	1	—	—	—	54	—	69	96	162	—
Accident	19	—	1	4	4	4	2	1	3	—	122	215	124	138	96	162	526
Other causes	11	—	—	1	1	—	4	2	3	—	—	—	—	—	—	—	—
All causes	382	1	3	15	30	44	104	69	116	245	366	806	931	1523	4967	11165	20351
Years of life (Census population × 3)	12,480	408	819	1,860	3,222	2,889	2,094	618	570								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	99	104	202	146	132	193	224	150								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,644
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	166

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* As represented by Stone Miners and Quarriers in Cumberland, Durham, Derbyshire, Nottinghamshire, Lincolnshire, Staffordshire, Warwickshire, Kent, Dorsetshire, Somersetshire, and Devonshire.

† As represented by Stone Miners and Quarriers in Cheshire, Lancashire, and the West Riding of Yorkshire.

OCCUPATIONAL GROUP 60a.—COTTON WEAVERS IN TOWNS WHERE ARTIFICIAL HUMIDITY IS USED IN THE MAJORITY OF THE SHEDS (356, part; 370, part).*																	CAUSE OF DEATH.	OCCUPATIONAL GROUP 60b.—COTTON WEAVERS IN TOWNS WHERE ARTIFICIAL HUMIDITY IS NOT USED IN THE MAJORITY OF THE SHEDS (356, part; 370, part).†																
Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.								For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.		All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up.
19			1	1	5	5	5	2	—	—	15	16	94	163	565	235	Influenza	6	—	—	—	2	—	—	2	2	—	—	—	52	—	—	436	422
38	2	3	11	10	9	3	—	—	72	71	165	163	169	98	—	—	Respiratory tuberculosis	12	2	4	1	1	4	—	—	—	91	150	23	26	117	—	—	—
5	1	—	2	1	—	1	—	—	36	—	30	16	—	33	—	—	Other tuberculosis	5	—	1	1	1	2	—	—	—	—	38	23	26	59	—	—	—
4		—	—	—	3	1	—	—	—	—	—	—	56	33	—	—	Syphilis, etc.	1	—	—	—	—	—	1	—	—	—	—	—	—	—	57	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Syphilis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	57	—	—
2	—	—	—	—	1	1	—	—	—	—	—	—	19	33	—	—	Tabes dorsalis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	General paralysis of insane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	2	—	—	—	—	—	—	—	38	—	—	—	Aneurysm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
41	—	1	—	1	9	12	9	9	—	24	—	16	169	390	1017	1056	Cancer, all sites	27	—	—	—	1	2	9	4	11	—	—	—	26	59	516	871	2321
2	—	—	—	—	1	1	—	—	—	—	—	—	19	33	—	—	Skin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	1	1	—	—	—	—	—	—	33	113	—	Tongue	2	—	—	—	—	—	1	—	1	—	—	—	—	—	57	—	211
4	—	—	—	—	2	2	—	—	—	—	—	—	38	65	—	—	Œsophagus	2	—	—	—	—	—	1	—	1	—	—	—	—	—	57	—	211
11	—	—	—	—	3	3	3	2	—	—	—	—	56	98	339	235	Stomach	9	—	—	—	—	1	3	2	3	—	—	—	—	29	172	436	633
22	—	1	—	1	3	5	5	7	—	24	—	16	56	163	565	822	Other sites	14	—	—	—	1	1	4	2	6	—	—	—	26	29	229	436	1266
3	—	—	—	—	—	1	1	1	—	—	—	—	—	33	113	117	Chronic rheumatism, etc., Gout	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	2	1	—	—	—	—	—	—	38	33	—	—	Diabetes	4	—	1	—	2	1	—	—	—	—	38	—	52	29	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	—	—	—	—	3	10	8	19	—	—	—	—	56	325	904	2230	Cerebral hæmorrhage, etc.	16	—	—	—	—	2	4	6	4	—	—	—	—	59	229	1307	844
11	1	1	2	2	—	1	3	1	36	24	30	33	—	33	339	117	Other dis. of the nervous system	5	—	1	—	—	1	1	—	2	—	38	—	—	29	57	—	422
23	—	—	3	1	4	3	4	8	—	—	45	16	75	98	452	939	Valvular disease of heart	20	1	—	4	3	4	4	1	3	46	—	93	78	117	229	218	633
32	1	—	1	2	1	4	5	18	36	—	15	33	19	130	565	2113	Other heart disease	21	—	—	2	1	3	10	2	3	—	—	47	26	88	574	436	633
21	—	—	—	—	2	3	4	12	—	—	—	—	38	98	452	1408	Arterio-sclerosis	8	—	—	—	—	—	1	1	6	—	—	—	—	—	57	218	1266
1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	117	Other dis. of circulatory system	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
48	—	1	1	2	4	15	4	21	—	24	15	33	75	488	452	2465	Bronchitis	20	—	—	—	1	1	3	5	10	—	—	—	26	29	172	1089	2110
30	2	2	4	5	4	4	3	6	72	47	60	81	75	130	339	704	Pneumonia	10	1	2	—	1	1	1	—	4	46	75	—	26	29	57	—	844
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	1	3	2	1	—	—	—	—	19	98	226	117	Other dis. of respiratory system	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	422
5	—	—	1	1	—	2	1	—	—	—	15	16	—	65	113	—	Ulcer of stomach	1	—	—	1	—	—	—	—	—	—	—	23	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Ulcer of duodenum	1	—	—	—	1	—	—	—	—	—	—	—	26	—	—	—	—
4	1	1	—	1	—	1	—	—	36	24	—	16	—	33	—	—	Appendicitis	5	2	1	—	—	1	1	—	—	91	38	—	—	29	57	—	—
4	—	—	—	—	1	3	—	—	—	—	—	—	19	98	—	—	Hernia	1	—	—	—	—	1	—	—	—	—	—	—	—	29	—	—	—
5	—	—	—	—	2	—	2	1	—	—	—	—	38	—	226	117	Intestinal obstruction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—	—	Cirrhosis of liver	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	1	—	—	1	3	3	2	—	36	—	—	16	56	98	226	—	Other dis. of digestive system	5	—	—	—	1	—	2	1	1	—	—	—	26	—	115	218	211
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Acute nephritis	2	—	—	1	—	—	1	—	—	—	—	23	—	—	57	—	—
15	—	—	3	1	3	3	4	1	—	—	45	16	56	98	452	117	Chronic nephritis	6	—	—	—	—	1	3	—	2	—	—	—	—	29	172	—	422
6	—	—	—	—	—	—	2	4	—	—	—	—	—	—	226	469	Diseases of the prostate	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	218	211
4	—	—	1	—	1	1	1	—	—	—	15	—	19	33	113	—	Other genito-urinary diseases	3	—	—	—	—	—	1	—	2	—	—	—	—	—	57	—	422
37	—	—	—	—	—	1	5	31	—	—	—	—	—	33	565	3638	Old age	13	—	—	—	—	—	—	4	9	—	—	—	—	—	—	871	1899
10	—	—	—	1	2	4	1	2	—	—	—	16	38	130	113	235	Suicide	5	—	—	—	1	—	1	2	1	—	—	—	26	—	57	436	211
4	—	1	—	1	1	—	1	—	—	24	—	16	19	—	113	—	Accident	4	—	—	—	—	—	3	—	1	—	—	—	—	—	172	—	211
27	—	—	5	2	3	7	4	6	—	—	—	—	—	—	—	—	Other causes	8	—	1	2		1	1	2	1	—	—	—	—	—	—	—	—
458	9	10	35	33	64	92	71	144	323	237	526	537	1205	2992	8023	16901	All causes	213	6	11	12	16	25	47	31	65	274	414	280	414	734	2697	6754	13713
29,937	2,784	4,227	6,654	6,147	5,313	3,075	885	852									Years of life (Census population × 3)	19,080	2,187	2,658	4,287	3,867	3,405	1,743	459	474								
—	131	67	132	84	104	116	161	124									Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	111	118	70	65	63	105	135	101								

Group 60a.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 1,065

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 106

Group 60b.

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate) 834

Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males 82

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* The County Borough of Blackburn, the Municipal Boroughs of Bacup, Chorley, Darwen, and Rawtenstall.

† The County Borough of Bolton and the Municipal Borough of Nelson.

OCCUPATIONAL GROUP 94a.—LIMESTONE MASONS, CUTTERS, AND DRESSERS (572, 575).*

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and up
Influenza	20	—	—	—	3	1	6	4	6	—	—	—	48	19	117	191	294
Respiratory tuberculosis ..	64	—	1	5	20	25	10	2	1	—	97	150	323	463	195	95	49
Other tuberculosis	9	1	—	2	—	3	—	2	1	86	—	60	—	56	—	95	49
Syphilis, etc.	7	—	—	—	1	2	1	3	—	—	—	—	16	37	19	43	—
Syphilis	1	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—	—
Tabes dorsalis..	2	—	—	—	—	—	1	1	—	—	—	—	—	—	19	48	—
General paralysis of insane	3	—	—	—	1	1	—	1	—	—	—	—	16	19	—	48	—
Aneurysm	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	48	—
Cancer, all sites	82	—	—	—	5	7	26	16	28	—	—	—	81	130	506	763	1371
Skin	5	—	—	—	—	1	2	—	2	—	—	—	—	19	39	—	98
Lip	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tongue	6	—	—	—	—	2	1	2	1	—	—	—	—	37	19	95	49
Œsopahagus	6	—	—	—	—	—	2	2	2	—	—	—	—	—	39	95	98
Stomach	18	—	—	—	2	1	7	3	5	—	—	—	32	19	136	143	245
Other sites	47	—	—	—	3	3	14	9	18	—	—	—	48	56	272	429	881
Chronic rheumatism, etc., Gout	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	48	—
Diabetes	6	—	—	—	1	1	2	1	1	—	—	—	16	19	39	48	49
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral hæmorrhage, etc. ..	48	—	—	—	2	3	11	10	22	—	—	—	32	56	214	477	1077
Other dis. of the nervous system	17	1	—	—	—	1	10	—	5	86	—	—	—	19	195	—	245
Valvular disease of heart ..	39	—	—	1	6	4	5	4	19	—	—	30	97	74	97	191	930
Other heart disease	78	—	—	1	—	6	17	11	43	—	—	30	—	111	331	525	2105
Arterio-sclerosis	37	—	—	—	1	—	3	5	28	—	—	—	16	—	58	238	1371
Other dis. of circulatory system	1	—	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—
Bronchitis..	79	—	—	—	—	3	16	9	51	—	—	—	—	56	311	429	2496
Pneumonia	34	—	—	—	3	8	12	7	4	—	—	—	48	148	234	334	196
Chronic interstitial pneumonia	9	—	—	—	—	5	3	1	—	—	—	—	—	93	58	48	—
Other dis. of respiratory system	15	—	—	—	—	3	4	6	2	—	—	—	—	56	78	286	98
Ulcer of stomach	7	—	—	1	1	3	2	—	—		—	30	16	56	39	—	—
Ulcer of duodenum	1	—	—	—	—	—	—	—	1		—	—	—	—	—	—	49
Appendicitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hernia	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	48	—
Intestinal obstruction	2	—	—	—	—	1	—	—	1	—	—	—	—	19	—	—	49
Cirrhosis of liver	1	—	—	—	—	1	—	—	—	—	—	—	—	19	—	—	—
Other dis. of digestive system ..	10	—	—	—	—	—	3	3	4	—	—	—	—	—	58	143	196
Acute nephritis	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	49
Chronic nephritis..	21	—	—	1	—	6	4	3	7	—	—	30	—	111	78	143	343
Diseases of the prostate ..	9	—	—	—	—	—	—	2	7	—	—	—	—	—	—	95	343
Other genito-urinary diseases ..	6	—	—	—	—	—	1	3	2	—	—	—	—	—	19	143	98
Old age	68	—	—	—	—	—	—	3	65	—	—	—	—	—	—	143	3182
Suicide	11	—	—	—	4	1	2	2	2	—	—	—	65	19	39	95	98
Accident	20	—	1	3	1	2	7	3	3	—	97	90	16	37	136	143	147
Other causes	16	1	—	—	3	3	3	3	3	—	—	—	—	—	—	—	—
All causes	720	3	2	14	51	89	149	105	307	259	194	419	824	1648	2899	5007	15027
Years of life (Census population × 3)	26,397	1,158	1,032	3,342	6,186	5,400	5,139	2,097	2,043								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	105	55	105	129	143	113	100	111								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	1,197
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	122

OCCUPATIONAL GROUP 94b.—SANDSTONE MASONS, CUTTERS, AND DRESSERS (572, 575). †

CAUSE OF DEATH.	Numbers of Deaths at Ages—									Mean Annual Death-rate per 100,000.							
For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	All Ages 16 and upwards.	16—	20—	25—	35-	45—	55 -	65—	70 and upwards.	16—	20-	25—	35—	45	55—	65—	70 and up.
Influenza	16	—	—	—	5	2	3	2	4	—	—	—	65	33	69	138	308
Respiratory tuberculosis ..	167	3	—	2	36	65	47	13	1	356	—	67	468	1084	1081	895	77
Other tuberculosis	12	—	—	1	1	7	3	—	—	—	—	33	13	117	69	—	—
Syphilis, etc.	8	—	—	—	1	5	2	—	—	—	—	—	13	83	46	—	—
Syphilis	1	—	—	—	—	1	—	—	—	—	—	—	—	17	—	—	—
Tabes dorsalis..	3	—	—	—	—	1	2	—	—	—	—	—	—	17	46	—	—
General paralysis of insane	2	—	—	—	—	2	—	—	—	—	—	—	—	33	—	—	—
Aneurysm	2	—	—	—	1	1	—	—	—	—	—	—	13	17	—	—	—
Cancer, all sites	82	—	—	—	5	19	32	13	13	—	—	—	65	317	736	895	1001
Skin	4	—	—	—	—	—	2	1	1	—	—	—	—	—	46	69	77
Lip	3	—	—	—	—	2	—	—	1	—	—	—	—	33	—	—	77
Tongue	2	—	—	—	—	—	1	1	—	—	—	—	—	—	23	69	—
Œsopahagus	3	—	—	—	—	1	—	1	1	—	—	—	—	17	—	69	77
Stomach	21	—	—	—	1	5	9	2	4	—	—	—	13	83	207	138	308
Other sites	49	—	—	—	4	11	20	8	6	—	—	—	52	184	460	551	462
Chronic rheumatism, etc., Gout	9	—	—	—	—	—	3	2	4	—	—	—	—	—	69	138	308
Diabetes	2	—	—	—	—	—	1	—	1	—	—	—	—	—	23	—	77
Alcoholism	1	—	—	—	—	—	1	—	—	—	—	—	—	—	23	—	—
Cerebral hæmorrhage, etc. ..	65	—	—	—	3	4	20	16	22	—	—	—	39	67	460	1102	1694
Other dis. of the nervous system	20	—	—	1	2	5	8	2	2	—	—	33	26	83	184	138	154
Valvular disease of heart ..	69	1	—	—	7	7	20	19	15	119	—	—	91	117	460	1309	1155
Other heart disease	55	—	—	—	1	3	18	14	19	—	—	—	13	50	414	964	1463
Arterio-sclerosis	58	—	—	—	1	4	10	12	31	—	—	—	13	67	230	826	2386
Other dis. of circulatory system	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	69	—
Bronchitis..	140	—	—	—	6	7	54	35	38	—	—	—	78	117	1242	2410	2925
Pneumonia	45	—	—	2	5	14	8	4	12	—	—	67	65	234	184	275	924
Chronic interstitial pneumonia	21	—	—	—	2	5	10	4	—	—	—	—	26	83	230	275	—
Other dis. of respiratory system	12	—	—	—	3	2	6	1	—	—	—	—	39	33	138	69	—
Ulcer of stomach	4	—	—	—	1	1	2	—	—	—	—	—	13	17	46	—	—
Ulcer of duodenum	2	—	—	—	2	—	—	—	—	—	—	—	26	—	—	—	—
Appendicitis	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	69	—
Hernia	8	—	—	—	—	2	3	3	—	—	—	—	—	33	69	207	—
Intestinal obstruction	1	—	—	—	1	—	—	—	—	—	—	—	13	—	—	—	—
Cirrhosis of liver	7	—	—	—	1	2	2	1	1	—	—	—	13	33	46	69	77
Other dis. of digestive system ..	9	—	—	—	2	2	2	1	2	—	—	—	26	33	46	69	154
Acute nephritis	1	—	—	—	—	—	1	—	—	—	—	—	—	—	23	—	—
Chronic nephritis..	17	—	—	—	—	5	8	1	3	—	—	—	—	83	184	69	231
Diseases of the prostate ..	12	—	—	—	—	1	2	3	6	—	—	—	—	17	46	207	462
Other genito-urinary diseases ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Old age	33	—	—	—	—	—	1	4	28	—	—	—	—	—	23	275	2156
Suicide	13	—	—	—	2	1	6	1	3	—	—	—	26	17	138	69	231
Accident	11	—	1	1	2	3	1	—	3	—	106	33	26	50	23	—	231
Other causes	22	—	—	1	2	8	6	3	2	—	—	—	—	—	—	—	—
All causes	924	4	1	8	91	174	280	156	210	474	106	267	1183	2903	6441	10744	16166
Years of life (Census population × 3)	25,563	843	939	2,994	7,695	5,994	4,347	1,452	1,299								
Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100.	—	192	30	67	185	251	250	215	119								

All Causes—ages 20–65 years.

Comparative Mortality Figure (Standardized Death-rate)	2,068
Deaths actually recorded per 100 which would have occurred at the rates for all Occupied and Retired Civilian Males	226

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* As represented by Masons and Stone Cutters and Dressers in Cumberland, Durham, Derbyshire, Nottinghamshire, Lincolnshire, Staffordshire, Warwickshire, Kent, Dorsetshire, Somersetshire, and Devonshire.

† As represented by Masons and Stone Cutters and Dressers in Cheshire, Lancashire, and the West Riding of Yorkshire.

APPENDIX A.

METHODS OF STATING SOCIAL AND OCCUPATIONAL MORTALITY EMPLOYED IN THIS REPORT.

For the detailed study of social and occupational mortality there is fortunately no need to discuss the method to be employed, which is evidently that of studying the age group mortalities recorded for the different causes. In practice, however, some method of summarizing this very copious material is found to be required, owing to the difficulty of assimilating and retaining the amount of detail provided by the rates referred to in such manner as to make them of practical use for the purpose of instituting the comparisons desired. And when summarizing is undertaken two types of question arise—(1) as to the material to be summarized, and (2) as to the method of summarization.

Two minor changes have been made in determining the summarized mortalities employed in the present supplement, one affecting the material summarized, and the other the method of summarization; while extensive use has been made of an alternative, in the shape of the ratio of "actual" to expected deaths, to the form of summary (comparative mortality figure) chiefly employed.

The change in regard to material summarized is one which can only exceptionally (as in the case of barristers, discussed on page xci) be of any serious consequence. Whereas hitherto mortality at ages 25–65 alone has been used in calculating the C.M.F., that for ages 20–25 also is now taken into consideration. This has been done in the belief that the average worker has at the age of 20 been sufficiently long subjected to the environmental influences of his occupation to make definite influence upon his mortality possible. Freedom to make the change was afforded by the fact that considerations of continuity, which might otherwise have forbidden it, were ruled out by the changes in occupational classification made in the 1921 census (*see* page v).

The change in the method of summarizing the age group mortalities in the C.M.F. (and the same procedure is applied in obtaining the "ratio of actual to expected deaths") is of more general importance. The populatio nemployed as the standard of comparison is not, as formerly, that of all males, but that of occupied and retired civilian males (*i.e.*, males engaged in or retired from a civilian occupation).

The reason for this change, the effect of which is by no means negligible, is that the population in each occupation dealt with consists of occupied and retired civilians alone, and it is therefore appropriate that the standard of comparison should be similar. Entry into any occupation implies a certain rough test of health—the imbecile and the bedridden invalid do not become occupied. This "weeding-out" process results in an excess of mortality for the never occupied at all ages up to 55, but declining with advance of age from a maximum of 232 per cent. at 16–20 to 8 per cent. at 45–55, after which other considerations dominate the comparison (Table *a*). The situation was complicated in 1921 by the inclusion amongst the numbers enumerated of many "ex-service" men who had never followed any civilian occupation before enlistment and whose health on discharge from military service during or after the war had prevented their doing so then. Naturally, the mortality rates of this war wreckage were very high, but their potential rates in time of peace would have been low, as they had all been accepted as physically fit for service. They are dealt with in Table *a* just as ex-service men would have to be in ordinary times of peace, by deducting them like all other occupied and retired males from the all males total in order to obtain the number of the "never occupied"—those for whom there is no record in census and death registers of present or past occupation.

The "occupied and retired" of Table *a* (col. B) differ from those tabulated on page 2 of the Abstracts (col. D), who form the standard for occupational mortality comparison, in including occupied and retired non-civilians (Table *d*). These, like the corresponding civilians, must evidently be deducted from the "all males" total to arrive at the "never occupied" (col. C), but it seems best, in dealing with the mortality of civilian occupations, to use the total civilian mortality experience as standard, excluding non-civilian experience as based on selected lives and subject to special risks not applying to the civilian populations under consideration.

The "occupied and retired non-civilians" in Table *d* include only men for whom there was no record of any civil occupation, all other "ex-service" men being classed to the civil occupation followed before or after military service. As the mortality of war invalids must have been high amongst these previously occupied men as well as amongst those without record of civil occupation all the occupational rates quoted are subject to slight discount as being somewhat increased from this cause. But the records permitted of no other course than that followed, and the effect of this factor upon the mortality of any occupation during 1921–23 must be slight.

After the age of 55 other considerations than selection of the physically and mentally fit for occupation, which no doubt play a part at earlier ages also, dominate the comparison.

Statement on the census schedules of the former occupation of retired males tends to be omitted as life advances, whereas in death registration statement of occupation can nearly always be obtained. The result is that in old age the population returned as occupied or retired is too small to correspond with the deaths similarly returned, so that the mortality of occupations is exaggerated, and that of the never occupied correspondingly understated. But as this source of error applies to each occupation individually in greater or less degree, as well as to the total occupied and retired, comparison of the more or less overstated mortality returned in old age for any occupation with the correctly stated mortality returned at the same age for all males jointly, exaggerates the mortality, at this time of life, of every occupation dealt with.

TABLE *a.—Mortality in relation to Statement of Occupation.*
Death-rates per 100,000 *living at various Ages in* 1921–23.

Age.	A. All Males.	B. All Occupied and Retired Males (including those dealt with in Table *d*).	C. Never Occupied Males (Code Nos. 990, 991 and X).	D. Occupied and Retired Civilian Males (excluding those dealt with in Table *d*).	Ratio of Rates C and D to A taken as 1,000.		
					A.	C.	D.
16—	288	245	956	247	1,000	3,319	858
20—	369	354	968	352	1,000	2,623	954
25—	419	411	980	399	1,000	2,339	952
35—	658	653	1,087	639	1,000	1,652	971
45—	1,170	1,169	1,260	1,156	1,000	1,077	988
55—	2,549	2,584	1,306	2,572	1,000	512	1,009
65—	4,792	5,006	1,210	4,991	1,000	253	1,042
70 and over	11,138	13,620	1,194	13,586	1,000	107	1,220

Deaths at Rates A and D amongst Occupied and Retired Civilian Males.

Age.	Years of Life.	Deaths at Rates.		Deaths up to and including each Age.		Deaths up to and including each Age, taking those at Rates A as 1,000.	
		A.	D (Recorded Deaths).	A.	D (Recorded Deaths).	A.	D.
20—	4,022,073	14,841	14,151	14,841	14,151	1,000	954
25—	7,542,300	31,602	30,111	46,443	44,262	1,000	953
35—	7,274,280	47,865	46,495	94,308	90,757	1,000	962
45—	6,262,878	73,276	72,408	167,584	163,165	1,000	974
55—	4,013,049	102,293	103,219	269,877	266,384	1,000	987
65—	1,262,496	60,499	63,017	330,376	329,401	1,000	997
70 and over	1,255,659	139,855	170,589	470,231	499,990	1,000	1,063

It will be seen that the large excess of mortality naturally recorded for the "never occupied" in early life gradually decreases as age advances until at 55–65 it is replaced by fictitious excess for the occupied, which rapidly increases as age further advances.

For this reason the mortality of all males at all ages forms an unsuitable measure with which to compare that of any category of occupied and retired males at all ages.

For, as shown by the lower portion of Table *a*, the aggregate mortality up to any period of life of the total occupied and retired civilian population, which, of course, represents the average for, and so typifies, all the occupations dealt with, is in fairly close agreement with, but a little lower than, that for all males up to age 70, at which the correspondence is very close indeed, but when ages over 70 are included a large difference suddenly arises. Mortality at all ages over 20 comes out 6·3 per cent. higher, when the deaths at 70 and over are calculated at the exaggerated rates applying to these ages in the records of the occupied and retired, than when calculated at the undistorted rates applying to the total population. But it is the rates typified by those marked D in the table, distorted in a degree varying much, no doubt, with the occupation, which have to be used in calculating occupational mortality. Hence, if the mortality at all ages over 20 of any occupation is calculated, it must tend, on comparison with the corresponding mortality for all males, to be overstated to an extent amounting on average to about 6·3 per cent. If, on the other hand, comparison is restricted to ages 20-65 (*see* page 124), as in the present report, but is made with the experience for all males of like age, occupational mortality tends to be understated to an average extent of 1·3 per cent., owing to the fact that a population, physically selected to some extent by the very fact of employment, is being unjustifiably compared with a standard to which that selection does not apply.

This source of error disappears, so far as the general tendency is concerned, when, as in the present report, comparative mortality figures, and ratios of actual to expected deaths, are based on the mortality experience of occupied and retired civilians, and not of all males —*i.e.*, when the standard population employed in calculating the C.M.F. (comparative mortality figure) is that which would yield 1,000 deaths at the mortality rates, not for all males, but for all occupied and retired civilians, and when the "expected" deaths are those which would have occurred at the same rates. But when, as in previous reports, the rates applying to all males are used for these calculations, occupational mortality is understated if, at the ages taken into account, these rates yield a larger aggregate number of deaths than the rates for occupied and retired civilians, and overstated if they yield a smaller number. In the present report the C.M.F. is a standardized mortality rate, at ages 20-65 jointly, derived from a sample of the occupied and retired civilian population at these ages in 1921 having the age distribution of this population and of such a size as to yield, at the mortality rates recorded for this population during 1921-23, exactly 1,000 deaths. Each occupational C.M.F. is therefore greater or less than the occupational average in proportion as it is more or less than 1,000.

The standard population now used numbers 109,296, of whom 15,099 are aged from 20 to 25, 28,313 from 25 to 35, 27,308 from 35 to 45, 23,511 from 45 to 55, and 15,065 from 55 to 65. If these numbers had been so chosen as to yield 1,000 deaths at the slightly higher mortality rates for all males their total would have been 108,444, and the deaths at rates comparable with those of the occupations 987, the difference between this figure and 1,000 representing the average extent to which the C.M.F. calculated by the old method would have understated occupational mortality. The difference may probably be regarded as one of point of view, but it is more convenient in practice to represent the average occupational mortality as 1,000 than as 987. The case is similar with the ratio of actual to expected deaths. This also understates occupational mortality, when the expected deaths are calculated at the rates for all males, if at the ages taken into account the total mortality of all males is greater than that of the occupied and retired, and overstates it if the all males mortality is less. For in the first case the standard with which the actual deaths are compared is too high, and therefore the ratio too low, and in the second case the standard of comparison is too low, and the resultant ratio too high. Hence, if the ages compared are restricted to 20-65, at which the mortality of occupied and retired civilians is 1·3 per cent. below that of all males (Table *a*) the "expected" deaths calculated are in excess of those to be expected at rates applicable to occupations, and mortality is slightly understated in consequence. But if all ages are brought into the comparison the "expected" deaths calculated fall short of those to be expected of the occupied and retired civilian population in the proportion 1,000 : 1,063, and comparison of the actual deaths with this low standard considerably overstates occupational mortality. Occupational mortality rates in general being subject to a prejudiced error (overstatement in old age) from which the rates for all males are free, the standard by which to measure the mortalities of particular occupations must embody the same error in average degree if all alike are not to be subject to distortion, in this case overstatement by comparison with too low a standard.

The difference in the results derived from the application of the mortality rates for all males to the occupational populations at all ages and at ages up to 65 is well exemplified by Table III of the Report for 1910–12. This table compares the actual deaths in each occupation with those which would have occurred had it been subject to the rate of mortality experienced by all males. The latter are calculated (*a*) at all ages over 15 and (*b*) at ages 25–65 only. Comparison of the ratios of the actual deaths to the numbers resulting from these two calculations shows that those yielded by basis (*a*) are nearly always in excess, and frequently in large excess, of those resulting from basis (*b*). A few illustrations may be given: Farmers (*a*) 80·4, (*b*) 63·1; Agricultural labourers (*a*) 76·4, (*b*) 59·0; Gamekeepers (*a*) 87·6, (*b*) 60·6; Clergymen, priests, ministers (*a*) 75·1, (*b*) 59·7; Coal miners (*a*) 103·4, (*b*) 91·2; Cotton manufacture (*a*) 115·8, (*b*) 100·8; Wool, worsted manufacture, (*a*) 118·7, (*b*) 102·0; and textile dyers, finishers, &c. (*a*) 119·6, (*b*) 107·2. In the ratios marked (*a*) the actual deaths yielding the overstated (Table *a*) occupational mortality at ages 65 and upwards are compared with the deaths yielded by the undistorted general death-rate at each age. The result is naturally to increase this ratio (actual deaths per cent. of calculated) beyond that representing the facts, in proportion to (1) the excess of the occupational mortality at 65 and upwards, due to the defect in the population discussed above, and (2) the weight or relative importance of this aged population in determining the general adult death-rate.

The mortality records in 1921–23 of two of the occupations quoted above* are analysed in Table *b* to show why the ratios derived from basis (*a*) are so much higher than those from basis (*b*) while a third occupation, barmen, which yields the opposite result, is similarly dealt with.

The proportion of agricultural labourers at ages 70 and upwards, 57,356 per million, is relatively high, and the weight attaching to their mortality correspondingly great. This mortality moreover is relatively high, amounting to 121 per cent. of that for all males, whereas at lower ages the corresponding ratios range from 59 to 83 per cent. of the all males rates. Consequently by taking these late deaths into account we add to the aggregate of preceding mortality a relatively high rate with a high weight attaching to it, the result being to send the ratio of actual to calculated deaths suddenly up, from 69 per cent. at ages 16–70, to 90. Consideration of the last column of the table shows that this figure is quite too high to represent the general facts for agricultural labourers.

The 21 per cent. excess of recorded deaths of agricultural labourers at 70– over those calculated at the rate for all males happens to be much the same as that of 22 per cent. for occupied and retired civilians in general (Table *a*), and on page 7, accordingly, where the latter rates are taken as standard, agricultural labourers' ratio at this age is 100. But at all earlier ages their rates are much below this standard, ranging as they do from 63 to 87 per cent. of it. As it may be presumed that this advantage is not in fact wholly lost in old age, the apparent equality recorded for these workers with other occupations seems to imply for them overstatement of mortality in old age in special degree. This indeed is to be expected, having regard to the origin of the overstatement in general.

Omission of statement of former occupation on the census schedules may be expected to increase down the social scale, and we find accordingly that the margin by which the mortality of Class V. exceeds that of Class I., after decreasing with advancing age from 111 per cent. at 16-20 to 17 per cent. at 65-70, suddenly increases at 70– to 40 per cent. (Diag. 1). This sudden reversal of the tendency for class mortalities to approximate, as the age approaches at which all must die, is presumably due to greater overstatement of mortality for Class V. than for Class I. as the result of more understatement in old age of the numbers retired from Class V. occupations.

The next occupation in Table *b*, the clergy, shows that inclusion of the higher ages in the comparison may lead to overstatement of relative mortality even where there is reason to suppose that the occupational mortality at these ages is little overstated. In this case, such an assumption is intrinsically probable. It is very unlikely that the name of a retired clergyman would be entered on a census schedule without record of his former occupation. And there is evidence in the returns that this is so. At ages under 70 the ratios of clerical to total mortality on the all males basis in Table *b* are in close agreement with those on the occupied and retired basis on page 78, the greatest difference being between 83 per cent. on the latter basis, and 87 on the former, at 65-70. But at 70 and over the ratio on the occupied and retired basis falls to 74, and that on the all males basis rises to 90 per cent. Presumably, the ratio on the all males basis rises from 87 to 90, because in old age the mortality of all sections of the population tends towards equality. The ratio on the occupied and retired basis falls from 83 to 74, because of the overstatement of mortality at these ages in other occupations. So the sudden increase of the difference from 83–87 to 74–90 implies that this overstatement is less for the clergy than for other people. Relatively, at least, it may be taken not to exist. But although this late mortality is not overstated for the clergy, its addition to the reckoning leads to sudden and unreasonable increase of their proportionate mortality, from 60 per cent. of average at 25–65 (467/775) to 79 per cent. (1685/2139) at all ages over 16. This is due entirely to the extraordinary weight attaching to the higher age groups in this occupation. Whereas 3·55 per cent. of the occupied and retired as a whole are over 70 years of age, this proportion rises for the clergy to over 13 per cent. The sudden rise with age from 60 to 79 per cent., even when the correct mortality of clergymen is compared with the correct mortality of all males, shows that there is much to be said for restricting comparison to ages under 65, even apart from the general overstatement of occupational mortality at higher ages.

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* Neither the agricultural labourers nor the clergy in Table *b* are precisely the same as in 1910–12, for the former now include shepherds, excluded before, and the latter are restricted to the Church of England, whereas the clergy of 1910–12 included all denominations. This group has now been divided into three, and its largest component, the Anglican clergy, selected to represent the former composite group, but neither of these changes of occupational classification can materially affect the question discussed.

Table *b.—Comparison of the cumulative effect throughout life of the Mortality actually experienced in certain Occupations in* 1921–23 *with that which would have resulted at the Rates applying to the General Male Population.*

Age.	Years of Life.	Age Distribution.	Mortality of Total Male Population (per 100,000 living).	Calculated Deaths at foregoing Rates.	Recorded Deaths.	Recorded Deaths per cent. of Calculated.	Deaths up to and including each Age.		
							Calculated.	Recorded	Recorded per cent. of Calculated.
				5. Agricultural Labourers.					
16—	255,525	159,276	288	736	437	59	736	437	59
20—	196,947	122,763	369	727	605	83	1,463	1,042	71
25—	278,406	173,540	419	1,167	947	81	2,630	1,989	76
35—	252,903	157,642	658	1,664	1,053	63	4,294	3,042	71
45—	243,096	151,529	1,170	2,844	1,775	62	7,138	4,817	67
55—	206,295	128,590	2,549	5,258	3,563	68	12,396	8,380	68
65—	79,098	49,304	4,792	3,790	2,870	76	16,186	11,250	69
70 and over ...	92,016	57,356	11,138	10,249	12,444	121	26,435	23,694	90
All Ages over 16	1,604,286	1,000,000	—	26,435	23,694	90	—	—	—
				134. Clergymen (Anglican Church).					
16—	—	—	288	—	—	—	—	—	—
20—	210	2,886	369	1	—	—	1	—	—
25—	7,578	104,152	419	32	15	47	33	15	45
35—	14,166	194,698	658	93	56	60	126	71	56
45—	17,427	239,517	1,170	204	113	55	330	184	56
55—	17,472	240,135	2,549	445	283	64	775	467	60
65—	6,414	88,154	4,792	307	267	87	1,082	734	68
70 and over ...	9,492	130,458	11,138	1,057	951	90	2,139	1,685	79
All Ages over 16	72,759	1,000,000	—	2,139	1,685	79	—	—	—
				153. Barmen.					
16—	7,311	131,382	288	21	21	100	21	21	100
20—	9,639	173,217	369	36	51	142	57	72	126
25—	15,141	272,090	419	63	100	159	120	172	143
35—	11,223	201,682	658	74	180	243	194	352	181
45—	7,284	130,897	1,170	85	176	207	279	528	189
55—	3,513	63,130	2,549	90	159	177	369	687	186
65—	966	17,359	4,792	46	59	128	415	746	180
70 and over ...	570	10,243	11,138	63	59	94	478	805	168
All Ages over 16	55,647	1,000,000	—	478	805	168	—	—	—

Inclusion of the high and inevitable mortality of old age, which has weight in proportion to the healthiness of occupations during working life, must tend towards the levelling of all occupational mortality rates, by increasing most those of the healthiest occupations.

Age ultimately triumphs over hygiene, and if we wish to measure the effects of hygiene, we can do so better where they are not swamped by those of age. It was presumably this consideration which led Dr. Farr, in the Supplement to the Thirty-fifth Report (Table 63), to indicate the period of life between 25 and 65 years of age as that in which "the influence of profession is most felt," so that from that date summarization of occupational mortalities has been restricted to these ages, except for the new alternative age basis in Table III. of the Report for 1910–12 and for inclusion of 20–25 in the present report. However this may be, restriction to ages under 65 had also incidentally the salutary result of eliminating the effects of occupational mortality overstatement at higher ages.

The third occupation dealt with in Table *b*, that of barman, is included to illustrate the few cases in which the ratio of recorded to calculated deaths is decreased by addition of those at ages over 65. In this case mortality is excessive at 35-65, and moderate amongst the few who survive the latter age. Moderately low mortality, with little weight attached, adds comparatively few recorded deaths at ages over 65 to those in earlier life, and consequently the proportion to the calculated total is less when these ages are taken into account. This result is evidently more likely to occur with occupations in which the advanced ages have low weight, generally as the result of high mortality earlier in life, and we find accordingly that the instances of its occurrence in Table III of the Report for 1910-12 are chiefly found towards the end of the table, where mortalities are highest. The most notable of these are :—

	Percentage of Actual to Expected Deaths.	
	Ages 15 and upwards.	Ages 25–65.
Barmen	201·6	243·3
Costermongers, Hawkers..	161·0	186·7
Messengers, Porters and Watchmen	119·7	142·9
Dock Labourers	132·5	143·1
Tin Miners	189·8	200·0

A few instances may now be given of the results of different bases of comparison of occupational mortalities during 1921–23 :—

TABLE *c.—Comparison of the Results of various Methods of stating the Mortality of certain Occupations.*

Occupation Group No.	—	Recorded Deaths per cent. of Deaths calculated at Rates for				Comparative Mortality Figure (based on Ages 20–65 and Rates for Occupied and Retired Civilians).
		All Males.		Occupied and Retired Civilian Males.		
		All Ages over 16.	Ages 20–65.	All Ages over 16.	Ages 20–65.	
		(*1*)	(*2*)	(*3*)	(*4*)	(*5*)
	All Males	100	100	94	101	1,013
	All Occupied and Retired Civilians ...	106	99	100	100	1,000
	Social Class I	91	82	84	82	812
	,, II	103	93	96	94	942
	,, III	101	94	96	95	951
	,, IV	106	99	100	101	1,007
	,, V	127	124	120	125	1,258
1	Farmers, &c....	85	67	77	67	674
3	Farm Bailiffs	91	54	85	54	526
5	Agricultural Labourers, &c.	90	68	83	69	688
16	Cement Workers, Lime Burners, &c. ...	85	71	81	72	717
79	Carpenters...	94	83	87	84	843
96	Platelayers	112	91	106	92	920
108	Railway Signalmen	84	63	79	63	622
134	Clergymen (Anglican Church)	79	60	71	60	561
151	Gamekeepers	107	64	97	65	667
18	Potters, &c.	155	163	150	166	1,642
20	China, &c., Kiln and Oven Men ...	169	180	167	183	1,830
38	File Cutters	176	182	164	182	1,851
40A	Cutlery Grinders	281	324	272	330	3,295
75	Cellarmen	140	149	133	150	1,510
101	Brush Makers	123	125	113	126	1,320
137	Barristers	103	106	93	107	1,171
153	Barmen	168	192	167	196	1,955

Occupied and retired civilians as a whole show slight advantage (1 per cent.) when comparison on the basis of the all males rates is restricted to ages 20-65, as the result of exclusion of the unfit from occupation. But when all ages are taken into account the overstatement of mortality for the occupied at the higher ages converts this advantage into a disadvantage of 6 per cent., as already seen in Table *a*. This increase of mortality when all ages are taken into account, (using the mortality rates for all males), applies to each of the social classes. In fact Class I, which includes only about 2 per cent. of the occupied population, is the only one to record a death-rate below the general average on this basis of comparison, a fact which of course suffices to demonstrate the unsuitability of the basis. The excess of the ratio in col. 1 over that in col. 2 is greatest for Classes I and II and least for Class V, as is to be expected in view of the instances of reversal of this excess already discussed amongst occupations of high mortality. And as between cols. 3 and 4 such reversal actually occurs for Classes IV and V.

The first nine occupations in the table have been selected as instances of large difference between the ratios applying to mortality at all ages over 16 (col. 1) and at ages 20-65 (col. 2). All these are occupations of low mortality during the working period of life, and in each case the effect of taking the overstated occupational mortality at ages over 65 into consideration is to increase the ratio and so produce a result showing the occupation in a much less favourable light. This unfortunate result is in all cases lessened, often very considerably, in col.3, by the use as standard of the mortality rates for the occupied and retired, which share in average degree the overstatement applying in varying degree to the occupational rates at the higher ages. But restriction of the ages taken into consideration, so as to exclude those over 65, which are so liable to overstatement of mortality and so little influenced by environmental conditions, has still greater effect. Indeed, when the ages subject to overstatement are excluded the result is much the same whichever rates are used as standard. This is to be expected in view of the close similarity between the results of applying the two sets of rates to all occupied and retired civilians at ages 20–65 (Table *a*). But when all ages are taken into consideration the ratios obtained are higher if comparison is made by using the approximately correct rates for all males than if it is made by means of the overstated rates for the occupied and retired,for in the former case we are comparing overstated recorded mortality with correctly estimated expected mortality, and in the latter case we are comparing this overstated mortality with expected mortality estimated on a basis allowing for average overstatement, and so more fairly comparable with the recorded mortality. It is clear therefore that if all ages are to be taken into account the mortality used as standard should be that for occupied and retired civilians, and it has been seen that if ages over 65 are excluded the results are much the same whichever rates are used.

But though the difference is small, use of the rates for occupied and retired civilians is to some extent preferable as providing the fairer comparison, by excluding on both sides the high mortality (Table *a*) of the unemployable in early adult life. Thus whether all ages or only ages 20–65 are dealt with the rates used as a standard for comparison should be those for the occupied and retired, and the only question remaining is whether they should be applied to all ages (Table *c*, col. 3) or to ages 20–65 (col 4).

In making this choice we may begin by considering the case of the clergy in cols. 1 and 2. Theirs is a special case, and simpler than others, because the census returns of numbers living, as well as the deaths, may be assumed to be correct. The reason why their ratio is so much higher in col. 1 than in col. 2 (79 and 60) has already been seen in connexion with Table *b*. The increase caused by including ages over 65 represents the effect of the tendency of mortality at these ages to approximate for classes and occupations (Table B), as it does for different localities (town and country—Annual Report, 1911, Diag. III, and Statistical Review, 1922, Text, Diag. I), and for different eras (the modern reduction of mortality decreasing as life advances). Lower ratios in cols. 2 and 4 than in cols. 1 and 3, (apart from the cases of high mortality occupations represented by the eight samples in the lower section of the table) are therefore due partly, and in the exceptional case of the clergy entirely, to this cause. But in the ordinary case another factor contributes to the difference. Understatement of occupational population at ages over 65 (Table *a*) causes understatement of “ expected ” deaths, and so overstatement of the ratios in col. 1. In col. 3 this understatement of population is compensated for in proportion as it approaches the average by overstatement of mortality for occupied and retired civilians to a corresponding extent. So if we imagine a typical occupation, with exactly average understatement of senile population, the use of the rates for the occupied and retired exactly compensates for this understatement, and the difference between the ratios in cols. 3 and 4 is due to the same cause as that between the ratios for the clergy in cols. 1 and 2—relatively high mortality in old age. The line for occupied and retired civilians in Table *c* may be taken as representing such a typical occupation, and as in its case mortality in old age is neither relatively high nor low, there is no difference between the ratios in cols. 3 and 4. It will be noticed that for Classes I–III, those of lowest mortality, and in which the approximation to average of senile mortality therefore makes it relatively high, the ratios in col. 3 exceed those in col. 4, whereas for Classes IV and V, in which for the same reason senile mortality is relatively low, the ratios in col. 4 exceed those in col. 3—substantially in the case of Class V.

With these causes of difference between cols. 3 and 4 in mind, we may now proceed to the choice between them. In the first place, understatement of population at the higher ages can only be correctly compensated for by use of the overstated occupational mortality (for all occupied and retired) in the typical case where such understatement is of exactly average extent, and such instances will be few, if they occur at all. This in itself forms an argument for ignoring the imperfect data for ages over 65. But there is another and perhaps stronger argument depending on the point of view from which these occupational comparisons are approached. We may wish to compare the total lifetime of men who are or have been clergymen, costermongers, &c., in which case all ages must be taken into account, however defective the data in old age. But apart from the impossibility, in present circumstances, of making this comparison correctly, the question arises whether it is the comparison which it is most desirable to make. The standpoint of these reports has always been that it is desirable to bring out as clearly as possible the influence of occupation upon mortality at those ages at which it can be expected to be of importance, or, in Farr's words, "at which the influence of profession is most felt." To do so it is evidently better to eliminate ages over 65, at which occupational mortality is not only incorrectly returned, but tends towards equality for all occupations, whatever their effects upon health.

For both these reasons, then, preference must be given to the ratios in col. 4 over those in col. 3. A third reason, indeed, pointing in the same direction, has been referred to. To take account of the higher ages would constitute a new departure in the history of these reports introducing further elements of incomparability with earlier members of the series. This should be done only if on the merits the case for it is strong, as was the case for the new departure in 1921 in occupational classification. But if it be agreed that on the merits the case for a change of method, introducing the higher ages, is weak, considerations of continuity form a strong additional reason for continuing their exclusion. A slight change has, indeed, been made by including age 20–25, but the effect of this is so small as compared with that of the change in classification as to be inappreciable when made in conjunction with the latter, and many occupational risks must take effect at this as well as at later ages. Whether the change is desirable or not, its total effect is small, as can be seen from the number of deaths shown for this age in Table *a*.

The ratios in col. 4, Table *c*, are given on pages 2–116 for each occupation group dealt with, and are compared with the comparative mortality figure calculated as above described by use of the same ages and mortalities. The correspondence is as a rule very close, showing that the method of standardization is of little moment so long as the ages and mortalities taken into account are similar. The C.M.F., used in these reports from that for 1880–82 onwards, summarises the age mortalities of the various occupations without varying the weights attaching to them, whereas the method represented by col. 4 varies these weights in accordance with the age distribution of the population dealt with. The choice between these procedures is largely a matter of personal taste, and is as a rule of little consequence. One practical advantage, however, of the ratios in col. 4 may be referred to. These are derived from mortality rates based on very large populations, whereas the C.M.F. is derived from occupational age mortality rates, based in some cases on very small populations. Barristers have been included in Table *c* as exemplifying the possible effects of this to an exceptional extent. The excess of their C.M.F., 1,171, over their col. 4 ratio of 107 per cent. is entirely due to a very high rate of mortality at age 20–25, based on a single death. Had this one death not occurred their C.M.F. would have been 1,023 instead of 1,171. This, however, is an extreme case, and generally speaking, the results of using the two methods are very much the same.

And it may be argued that the same possibility of chance variation is introduced into the ratio of "actual" to "expected" deaths by the smallness of the population in which the actual deaths occur as is introduced into the standardized mortality by the smallness of the same population, from which are derived the age rates on which it (the C.M.F.) is based. But this argument only partially meets the case against the C.M.F. For the C.M.F. assigns average weight to an abnormal mortality rendered possible only by the subnormal proportion of barristers living at the age in question, 20–25. So even if one's point of view prefers fixed weights in the summation of age mortalities it must be admitted that the method of varying weights possesses a practical advantage where small populations are concerned; and the same consideration must apply to the comparatively small mortalities from separate causes.

The latter eight occupations in Table *c* illustrate the cases where, generally as the result of relatively high mortality at ages under 65, the ratio of "actual" to "expected" deaths is lower if based on all ages than if senile mortality is excluded. These cases are typified by that of the barman, already considered in connexion with Table *b*. It will be seen that they are all of high, as the other nine are of low, mortality.

TABLE *d.*

Deaths of Non-Civilians, and of Men retired, without record of civil occupation, from the Navy, Army, and Air Force, 1921–23.

OFFICERS AND MEN OF THE NAVY, ARMY AND AIR FORCE (810-5). Numbers of Deaths at Ages— All Ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.	CAUSE OF DEATH. For the precise significance of each title and its relation to the International List of Causes of Death, see page 1.	RETIRED, WITHOUT RECORD OF CIVIL OCCUPATION, FROM NAVY, ARMY, AND AIR FORCE (998, 999). Numbers of Deaths at Ages— All ages 16 and upwards.	16—	20—	25—	35—	45—	55—	65—	70 and upwards.
45	15	7	12	7	3	—	1	—	Influenza	136	—	2	9	19	18	17	17	54
265	17	66	87	81	13	1	—	—	Respiratory tuberculosis	1,864	20	327	697	507	223	63	11	16
53	13	18	13	7	2	—	—	—	Other tuberculosis	121	2	37	44	21	7	6	3	1
127	—	3	26	75	22	1	—	—	Syphilis, etc.	399	—	—	31	128	141	61	16	22
10	—	2	5	3	—	—	—	—	Syphilis	30	—	—	4	7	14	2	2	1
—	—	—	—	—	—	—	—	—	Tabes dorsalis	64	—	—	2	10	18	15	8	11
105	—	1	20	65	19	—	—	—	General paralysis of insane	193	—	—	24	90	62	17	—	—
12	—	—	1	7	3	1	—	—	Aneurysm	112	—	—	1	21	47	27	6	10
88	3	7	14	40	17	7	—	—	Cancer, all sites	916	1	7	14	68	137	231	127	331
1	—	—	—	—	—	1	—	—	Skin	43	—	—	2	—	3	10	1	27
1	—	—	—	—	1	—	—	—	Lip	17	—	—	—	2	2	2	2	9
4	—	—	—	3	—	1	—	—	Tongue	69	—	—	2	3	6	24	11	23
5	—	—	—	2	3	—	—	—	Œsophagus	68	—	—	—	3	11	18	11	25
21	—	—	1	15	4	1	—	—	Stomach	154	—	—	1	17	35	36	22	43
56	3	7	13	20	9	4	—	—	Other sites	565	1	7	9	43	80	141	80	204
—	—	—	—	—	—	—	—	—	Chronic rheumatism, etc., Gout	33	—	—	2	3	4	6	3	15
8	2	1	5	—	—	—	—	—	Diabetes	99	—	5	25	13	12	14	5	25
7	—	—	1	6	—	—	—	—	Alcoholism	4	—	—	—	1	1	1	—	1
26	1	2	8	8	5	2	—	—	Cerebral hæmorrhage, etc.	479	—	—	7	19	51	78	54	270
65	8	12	25	16	2	1	—	1	Other diseases of the nervous system	300	—	16	51	54	58	46	23	52
27	1	2	10	8	5	—	1	—	Valvular disease of heart	566	—	12	62	81	92	92	46	181
49	3	7	12	18	8	—	1	—	Other heart disease	728	—	11	52	57	73	102	85	348
9	—	—	1	6	2	—	—	—	Arterio-sclerosis	353	—	—	1	12	23	35	43	239
2	1	—	—	1	—	—	—	—	Other diseases of circulatory system	17	—	—	—	3	3	4	3	4
11	1	2	2	2	2	—	—	2	Bronchitis	491	—	2	13	38	38	40	49	311
161	35	28	53	39	3	—	—	3	Pneumonia	336	—	7	29	62	51	44	26	117
—	—	—	—	—	—	—	—	—	Chronic interstitial pneumonia	9	—	1	—	3	2	2	1	—
21	2	6	5	6	2	—	—	—	Other diseases of respiratory system	108	—	6	14	16	12	13	7	40
24	—	5	8	7	3	1	—	—	Ulcer of stomach	52	—	—	3	21	14	5	6	3
17	1	2	4	8	1	1	—	—	Ulcer of duodenum	23	—	—	3	5	6	4	—	5
39	7	17	7	6	2	—	—	—	Appendicitis	28	—	4	4	5	3	6	1	5
3	—	1	1	1	—	—	—	—	Hernia	22	—	—	1	2	2	2	1	14
22	2	8	7	2	3	—	—	—	Intestinal obstruction	40	—	—	8	9	3	4	3	13
4	—	—	—	3	1	—	—	—	Cirrhosis of liver	50	—	—	1	2	12	24	4	7
35	2	10	15	7	1	—	—	—	Other diseases of digestive system	138	—	3	15	13	11	22	14	60
6	—	3	2	1	—	—	—	—	Acute nephritis	17	—	—	1	1	2	5	2	6
24	1	2	5	9	6	1	—	—	Chronic nephritis	309	2	13	27	41	51	50	34	91
2	—	—	—	—	2	—	—	—	Diseases of the prostate	112	—	—	—	—	—	5	13	94
18	1	6	5	1	5	—	—	—	Other genito-urinary diseases	127	—	3	11	16	15	18	8	56
1	—	—	—	—	—	—	1	—	Old age	523	—	—	—	—	—	3	13	507
81	14	18	21	26	2	—	—	—	Suicide	120	—	6	21	26	26	18	10	13
301	38	107	113	39	3	1	—	—	Accident	117	—	5	10	18	21	19	13	31
169	36	49	53	26	5	—	—	—	Other causes	334	1	28	74	65	58	31	16	61
1,710	204	389	515	456	120	16	4	6	All causes	8,971	26	495	1,230	1,329	1,170	1,071	657	2,993
605,763	129,498	192,276	173,841	89,280	18,120	2,241	231	276	Years of Life (Census Population × 3)	174,351	2,667	26,928	38,385	33,513	23,253	21,693	9,309	18,603
—	158	202	296	511	662	714	1,732	2,174	Mean Annual Death-rates per 100,000	—	975	1,838	3,204	3,966	5,032	4,937	7,058	16,089
—	64	57	74	80	57	28	35	16	Ratio of Mortality to that of all Occupied and Retired Civilian Males taken as 100	—	395	522	803	621	435	192	141	118

APPENDIX B.

Seamen, Merchant Service (census occupation numbers 733–7) have not been included amongst the occupational groups dealt with in the body of the report, because mortality rates calculated, as for other occupations, on census population and registered deaths are necessarily very incomplete, and so liable to be misleading.

In 1921 rather less than two-thirds (an exceptionally high proportion) of the total of British seamen between 20 and 65 years of age, were included in the British census (page 128), the remainder being at sea or abroad, and similarly the deaths registered in this country necessarily exclude those occurring at sea or in foreign ports. It has, nevertheless, been customary in the past to collate these two sets of incomplete and independently varying figures and present the resultant mortalities in the same form as for other occupations. But as it was found that, notwithstanding warnings of the dubious value of the rates so derived, they were freely quoted and used as if of equal validity with other occupational returns, it seemed necessary on the present occasion either to abandon inclusion of this occupation altogether or to attempt by some means to obtain a more complete and trustworthy statement of its mortality. These alternatives were considered by a sub-committee of the Permanent Consultative Committee on Official Statistics, which had been consulted by the Board of Trade as to the statistical treatment of mortality in the mercantile marine. In a report, published in 1926,* this sub-committee recommended that the mortality of merchant seamen should again be dealt with in the present report, but on lines calculated to yield more trustworthy results than those previously followed.

The scheme is described in the report referred to, and its application may be followed in the tabular statement on page 128. Briefly, it aims at obtaining comprehensive figures for British seamen both as regards population and deaths. This can be done only by combining the census and registration data with the corresponding records of the Registrar-General of Shipping and Seamen. As these necessarily relate to the United Kingdom as a whole, the combined statistics perforce have the same reference.

The total population of seamen, ashore or afloat and at home or abroad, has been obtained by addition to the total recorded in the British census (which, of course, comprises only those, on shipboard or ashore, who passed the census night in this country or reached a British port the following day) of a count which had fortunately been taken of the number of seamen (excluding fishermen) of various ages employed on sea-going vessels, registered under Part I of the Merchant Shipping Act, 1894, and belonging to the British Islands, who were not included in the British census, being absent on 19th June, 1921. Unfortunately, no Irish census had been taken in 1921, so the numbers of seamen ashore in Ireland on census date are unknown. This difficulty has been met, on the population side, by adding to the total absent on census date the total enumerated in the British Islands, Ireland excepted, so that the seamen of Great Britain are included whether ashore or afloat, but those of Ireland only if afloat; and as regards deaths, by corresponding treatment of the records, including all deaths of seamen at sea or abroad as reported by the Registrar-General of Shipping and Seamen, and all registered in the British Isles elsewhere than in Ireland. In this way complete returns have been obtained for other parts of the British Isles, while for Ireland population and deaths alike refer only to men "on articles" at the time of census or of death. Ships passing the census night in Irish ports had been counted as abroad, so their crews are included in the return furnished by the Registrar-General of Shipping and Seamen, and care was taken to exclude from the corresponding return of deaths on board ship or abroad all liable to registration in this country, so it is believed that the totals as defined above are complete and free from overlapping. A further account of the procedure followed will be found in the report cited, by which it has been governed, and the details of its application may be followed in the tabular statement on page 128.

But while the difficulties peculiar to the merchant seaman have been surmounted, it is hoped successfully, in the manner described, it does not follow that the results obtained are necessarily a correct measure of his mortality. The possibility of error due to want of correspondence between census and registration data (page vi) is of special importance in the case of seamen because change of occupation is specially frequent in their case. If the numbers of seamen on page 128 are compared with those of the total occupied and retired on page 2 it is seen that those for seamen are proportionately in large excess at 20–35, and in corresponding and increasing defect at 35–65. This no doubt means that large numbers of seamen leave the sea while still of working age and take up some shore occupation. This fact of itself should not necessarily affect the mortality returns. But if disease incurred at sea were a frequent cause of the change of occupation the seaman's mortality would be understated in that the deaths of such men, occurring after the change of occupation, would be debited to the land occupation while belonging by causal origin to the sea. There is no evidence in favour of this hypothesis, though it has to be considered as a possibility in the case of an occupation so frequently changed. But there is ample explanation, in the desire of the natural man for more settled conditions of life as age advances and the lure of adventure and discovery diminishes, for the abandonment of the sea in middle age apart altogether from considerations of health. On the other hand there is a picturesque and dramatic appeal in the calling of the mariner which may lead to its record in death certification in some cases even after a shore occupation has taken its place. If this does in fact occur it must lead to overstatement of the mortality of seamen. But this possibility involves a question as to the psychology of death registrars and their informants on which the returns afford no guidance. It can only be said here that the special frequency of change of the seaman's occupation affords special opportunity for discrepancy between census and registration data, but that there are ample reasons for the frequency of change apart from considerations of health which would prejudice the mortality records.

The procedure becomes a little involved in dealing with the deaths of Lascars. The object in view, in accordance with the recommendation of the committee, is exclusion of Lascars from the records both of population and deaths. The numbers enumerated in the British census are negligible, and Lascars have been excluded from the return of seamen abroad or at sea on census date, so they may be regarded as excluded from the population dealt with. Similarly, their deaths have been excluded from the return of those occurring abroad or at sea. But when this has been done 172 deaths of Lascars, 19 from violence and 153 from disease, remain included in the numbers registered in this country, as inferred from the fact that they occurred on vessels in rivers or harbours of the United Kingdom (information supplied by the Board of Trade). These deaths are, therefore, deducted as the final step in arriving at the numbers taken into account, so far as total deaths and deaths from violence are concerned. But as the numbers of registered Lascar deaths from respiratory tuberculosis and cancer are unknown, it has been impossible to apply the correction to the figures for these diseases. This, however, is of the less importance as the deaths recorded from all causes other than violence are merely the numbers registered in Great Britain.

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* "Statistics relating to Health and Mortality in the Mercantile Marine."

The reason for quoting the numbers of deaths in the British registers ascribed to respiratory tuberculosis and cancer, but not to other diseases, is that it may be assumed that men approaching death from chronic and disabling diseases, such as these, seldom go to sea, but if British, die in this country, so that the deaths registered should not fall far short of the complete facts. This surmise is supported by the fact that according to the Board of Trade Returns of Shipping Casualties to and Deaths on British vessels for 1921–23, 1,284 deaths of men (of all ages), other than Lascars, from disease (of which 172 were registrable in this country) included only 90 from phthisis and 14 from cancer, these numbers forming 7 per cent. of the registered figures for phthisis on page 128, and 3 per cent. of those for cancer. Accepting, then, the mortality registered from these causes as reasonably complete, we may compare the seamen's C.M.F.s from all causes, phthisis, cancer, and violence, with those for land occupations. They are as follows :—All causes, 1,768 ; phthisis, 221·5 ; cancer, 146·7 ; and violence, 389·7, corresponding ratios being 1,768, 1,355, 1,143, and 5,295. The rate for all causes is higher than that of 171 out of the 178 occupations in Table F, that from phthisis than 131, that from cancer than 117, but that for violence is quite beyond the range of land experience. The highest combined suicide and accident C.M.F. in Table C is that for conveyors of material to the coal shaft, 236·3, or about 39 per cent. less than that for seamen.

Of the four C.M.F.s quoted those for all causes and for violence are complete, but that for phthisis is subject to increase by less than 7 and that for cancer by less than 3 per cent. to allow for deaths at sea and abroad. The totals quoted above for these deaths, 90 and 14 respectively, would increase the rates to the extent stated, but of these totals some did not occur at ages 20–65, and others, occurring on vessels in British waters, are included amongst the registered deaths. In addition, some few deaths of Lascars from these causes (see above) have also to be allowed for.

The available data permit the seamen's C.M.F. from all forms of disease to be stated at 1,378, comparing with 926 for all occupied and retired males, so that the seaman's mortality from disease exceeds the average by 48·8 per cent. (but see page 126), and his mortality from violence by 430 per cent. On the one hand, mortality is swollen by many exotic diseases, representing a risk to which the home population is not exposed, and on the other hand the traditional dangers of the sea, though greatly mitigated, evidently retain considerable importance. Whereas the coal miner or railway shunter is exposed to special risk of fatal accident for a limited number of hours only, for, generally, six or less days a week, the seaman on voyage is at special risk for 24 hours daily seven days a week. He is exposed, in fact, not only to the special risks associated with the discharge of his hazardous duties—explosion, fall, loss overboard, etc.—which may be compared with the risk of the miner or the shunter, but in addition to the special risk involved by residence on shipboard, to which the conditions of dangerous occupations on land afford no parallel.

MORTALITY OF SEAMEN (CODE NOS 733–7) AGED 20-65 YEARS—1921 23.

——	Total aged 20–65 years.	Ages.				
		20–	25–	35–	45–	55 and under 65.
POPULATION :—						
Enumerated in—						
England and Wales (including retired)	110,783	20,448	36,205	25,963	17,904	10,263
Scotland*	17,779	3,183	5,571	4,241	3,095	1,689
Isle of Man and Channel Islands	1,104	157	340	263	194	150
Retired (Scotland and Islands)†	475	14	44	66	102	249
Total enumerated at 1921 Census	130,141	23,802	42,160	30,533	21,295	12,351
At Sea or Abroad on Census Day (excluding Lascars); figures furnished by the Registrar-General of Shipping and Seamen....	77,202	17,716	29,756	17,962	9,211	2,557
Total Seamen (excluding Lascars)	207,343	41,518	71,916	48,495	30,506	14,908
Deduct Foreign Seamen enumerated in Foreign Vessels in British Ports‡	8,037	1,844	3,098	1,870	959	266
Nett Total of Seamen	199,306	39,674	68,818	46,625	29,547	14,642
DEATHS—						
Registered in—						
England and Wales	4,905	455	1,037	1,009	1,112	1,292
Scotland*	794	67	182	155	175	215
Isle of Man and Channel Islands	67	2	8	13	15	29
At Sea and Abroad (excluding Lascars); furnished by the Registrar-General of Shipping and Seamen	2,322	346	689	570	481	236
Deaths from :—						
Respiratory Tuberculosis‖	1,247	201	498	325	158	65
Cancer‖	509	6	25	57	168	253
Violence (Accident, Suicide, Homicide)	2,022	334	631	477	370	210
Other Causes	4,310	329	762	888	1,087	1,244
All Causes	8,088	870	1,916	1,747	1,783	1,772
Deduct deaths of Lascars (registered) in rivers or harbours of Great Britain (furnished by the Registrar-General of Shipping and Seamen) from—						
Violence (Accident, Suicide, Homicide)	17	6	9	1	1	—
Other Causes	147	36	60	30	13	8
NETT DEATHS FROM—						
Respiratory Tuberculosis‖	1,247	201	498	325	158	65
Cancer‖	509	6	25	57	168	253
Violence (Accident, Suicide, Homicide)	2,005	328	622	476	369	210
Other Causes	4,163	293	702	858	1,074	1,236
All Causes	7,924	828	1,847	1,716	1,769	1,764
YEARS OF LIFE (nett Total of Seamen × 3)	597,918	119,022	206,454	139,875	88,641	43,926
DEATH-RATE PER 100,000—						
Respiratory Tuberculosis‖	—	169	241	232	178	148
Cancer‖	—	5	12	41	190	576
Violence (Accident, Suicide, Homicide)	—	276	301	340	416	478
Other Causes	—	246	340	613	1,212	2,814
All Causes	—	696	895	1,227	1,996	4,016
Ratio of Mortality to that of All Occupied and Retired Civilian Males taken as 100	—	198	224	192	173	156

Standardized Mortality (C.M.F.) at ages 20–65 from :—

All Causes, 1,768 ; Respiratory Tuberculosis, 221·5 ; Cancer, 146·7 ; Violence, 389·7.

Ratio of Standardized Mortality to that of All Occupied and Retired Civilian Males taken as 1,000 in each case :—

All Causes, 1,768 ; Respiratory Tuberculosis, 1,355 ; Cancer, 1,143 ; Violence, 5,295.

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* Includes the figures for Bargemen and Boatmen (code no. 738), but excludes those for Pursers, Stewards, &c. (code no. 737). The deaths relate to the years 1920–22.

† The number of Retired Seamen for Scotland and the Islands in the British Seas was known but not their ages. They have been distributed in accordance with the age constitution of the retired seamen in England and Wales.

‡ The number of these men was furnished by the Registrar-General of Shipping and Seamen. Their ages were not known and they have been distributed in accordance with the age constitution of Seamen enumerated at Sea or Abroad.

‖ Deaths registered in Great Britain and the Isle of Man and Channel Islands.

APPENDIX C.

Deaths, and Mortality per Million living, from Cancer of various sites, of all Occupied and Retired Civilian Males and of the Five Social Classes—1921–23.

—	Social Class.	Deaths.									Mortality per million.							
		Total over 16.	16–	20–	25–	35–	45–	55–	65–	70 and over.	16–	20–	25–	35–	45–	55–	65–	70 and over.
All Sites	Occ. & Ret. ...	61,634	126	233	853	2,905	10,369	19,811	10,641	16,696	34	58	113	399	1,656	4,937	8,429	13,297
	I	1,652	1	3	14	41	245	478	280	590	26	43	98	238	1,456	3,858	7,138	2,029
	II	14,479	18	39	163	549	2,129	4,295	2,543	4,743	41	65	115	353	1,504	4,577	8,706	13,752
	III	23,452	52	113	386	1,292	4,068	7,501	3,964	6,076	32	61	109	400	1,601	4,954	8,633	12,845
	IV	11,526	38	54	174	553	1,996	3,794	1,940	2,977	35	55	113	396	1,634	4,692	7,542	13,013
	V	10,525	17	24	116	470	1,931	3,743	1,914	2,310	31	46	127	510	2,106	5,960	8,912	14,447
Lip	Occ. & Ret. ...	750	—	1	2	4	54	185	115	389	—	0	0	1	9	46	91	310
	I	5	—	—	—	—	—	2	—	3	—	—	—	—	—	16	—	61
	II	132	—	—	—	—	7	29	22	74	—	—	—	—	5	31	75	215
	III	181	—	—	—	2	16	41	33	89	—	—	—	1	6	27	72	188
	IV	244	—	1	1	1	16	62	25	138	—	1	1	1	13	77	97	603
	V	188	—	—	1	1	15	51	35	85	—	—	1	1	16	81	163	532
Tongue	Occ. & Ret. ...	3,220	—	1	7	93	640	1,271	514	694	—	0	1	13	102	317	407	553
	I	54	—	—	—	1	12	14	10	17	—	—	—	6	71	113	255	347
	II	567	—	1	3	16	108	206	91	142	—	2	2	10	76	220	312	412
	III	1,184	—	—	1	37	229	475	191	251	—	—	0	11	90	314	416	531
	IV	604	—	—	3	17	128	255	88	113	—	—	2	12	105	315	342	494
	V	811	—	—	—	22	163	321	134	171	—	—	—	24	178	511	624	1,069
Mouth	Occ. & Ret. ...	1,048	—	—	—	27	187	381	194	259	—	—	—	4	30	95	153	206
	I	21	—	—	—	—	2	8	4	7	—	—	—	—	12	65	102	142
	II	184	—	—	—	3	35	60	33	53	—	—	—	2	25	64	113	153
	III	379	—	—	—	15	72	138	70	84	—	—	—	5	28	91	152	178
	IV	210	—	—	—	4	34	80	35	57	—	—	—	3	28	99	136	250
	V	254	—	—	—	5	44	95	52	58	—	—	—	5	48	151	243	363
Jaw	Occ. & Ret. ...	1,489	3	3	9	41	260	549	235	389	1	1	1	6	42	137	186	310
	I	17	—	—	—	—	2	5	3	7	—	—	—	—	12	40	76	143
	II	265	—	1	—	6	43	87	42	86	—	2	—	4	30	93	144	249
	III	555	1	1	5	21	88	209	85	145	1	1	1	7	35	138	185	307
	IV	295	1	—	1	8	60	114	39	72	1	—	1	6	49	141	152	315
	V	357	1	1	3	6	67	134	66	79	2	2	3	7	73	213	307	494

APPENDIX C—*continued.*

—	Social Class.	Deaths.									Mortality per million.							
		Total over 16.	16–	20–	25–	35–	45–	55–	65–	70 and over.	16–	20–	25–	35–	45–	55–	65–	70 and over.
Tonsil	Occ. & Ret. ...	665	3	5	8	23	130	270	114	112	1	1	1	3	21	67	90	89
	I	8	—	—	—	1	2	—	3	2	—	—	—	6	12	—	76	41
	II	129	1	—	1	6	27	48	23	23	2	—	1	4	19	51	79	67
	III	252	1	5	6	4	40	101	43	52	1	3	2	1	16	67	94	110
	IV	137	—	—	1	4	32	54	28	18	—	—	1	3	26	67	109	79
	V	139	1	—	—	8	29	67	17	17	2	—	—	9	32	107	79	106
Pharynx	Occ. & Ret. ...	768	3	3	4	24	165	295	121	153	1	1	1	3	26	74	96	122
	I	17	—	—	1	—	5	6	4	1	—	—	7	—	30	48	102	20
	II	145	1	1	—	2	34	48	22	37	2	2	—	1	24	51	75	107
	III	285	1	—	2	13	61	108	44	56	1	—	1	4	24	71	96	118
	IV	141	1	1	—	5	30	58	15	31	1	1	—	4	25	72	58	136
	V	180	—	1	1	4	35	75	36	28	—	2	1	4	38	119	168	175
Oesophagus	Occ. & Ret. ...	4,272	—	1	13	84	845	1,680	746	903	—	0	2	12	135	419	591	719
	I	99	—	—	—	1	19	37	14	28	—	—	—	6	113	299	357	571
	II	941	—	—	—	14	154	365	154	254	—	—	—	9	109	389	527	736
	III	1,708	—	—	8	41	362	658	284	355	—	—	2	13	142	435	619	750
	IV	708	—	—	3	10	155	278	140	122	—	—	2	7	127	344	544	533
	V	816	—	1	2	18	155	342	154	144	—	2	2	20	169	545	717	901
Stomach	Occ. & Ret. ...	13,590	5	10	163	787	2,472	4,443	2,367	3,343	1	2	22	108	395	1,107	1,875	2,662
	I	265	—	—	6	7	38	82	53	79	—	—	42	41	226	662	1,351	1,611
	II	3,021	—	1	19	131	452	881	584	953	—	2	13	84	319	939	1,999	2,763
	III	5,157	2	4	73	357	988	1,670	839	1,224	2	2	21	111	389	1,103	1,827	2,588
	IV	2,733	2	1	35	163	525	918	486	603	2	1	23	117	430	1,135	1,890	2,636
	V	2,414	1	4	30	129	469	892	405	484	2	8	33	140	512	1,420	1,885	3,026
Small Intestine	Occ. & Ret. ...	302	4	2	11	24	49	85	46	81	1	1	2	3	8	21	36	65
	I	8	—	—	—	—	3	2	1	2	—	—	—	—	18	16	25	41
	II	87	—	—	4	2	6	21	18	36	—	—	3	1	4	22	62	104
	III	104	—	1	5	12	18	36	14	18	—	1	1	4	7	24	30	38
	IV	58	4	1	1	4	13	12	9	14	4	1	1	3	11	15	35	61
	V	45	—	—	1	6	9	14	4	11	—	—	1	7	10	22	19	69

Cæcum	Occ. & Ret. ...	503	1	2	3	27	75	137	97	161	0	1	0	4	12	34	77	128
	I	26	—	—	—	—	6	2	4	14	—	—	—	—	36	16	102	285
	II	158	—	1	1	5	14	43	30	64	—	2	1	3	10	46	103	186
	III	195	—	1	2	12	34	56	36	54	—	1	1	4	13	37	78	114
	IV	72	—	—	—	3	11	22	16	20	—	—	—	2	9	27	62	87
	V	52	1	—	—	7	10	14	11	9	2	—	—	8	11	22	51	56
Hepatic and Splenic Flexures	Occ. & Ret. ...	200	—	1	4	6	36	54	33	66	—	0	1	1	6	14	26	53
	I	3	—	—	—	—	—	1	—	2	—	—	—	—	—	8	—	41
	II	66	—	—	1	—	10	19	10	26	—	—	1	—	7	20	34	75
	III	70	—	—	2	3	14	16	11	24	—	—	1	1	6	11	24	51
	IV	39	—	1	1	2	9	12	4	10	—	1	1	1	7	15	16	44
	V	22	—	—	—	1	3	6	8	4	—	—	—	1	3	10	37	25
Sigmoid Flexure	Occ. & Ret. ...	1,054	1	2	15	47	172	343	165	309	0	1	2	7	28	86	131	246
	I	54	—	—	1	3	7	14	8	21	—	—	7	17	42	113	204	428
	II	298	—	—	5	10	44	93	44	102	—	—	4	6	31	99	151	296
	III	402	1	2	5	20	69	130	69	106	1	1	1	6	27	86	150	224
	IV	167	—	—	3	9	25	57	28	45	—	—	2	6	21	71	109	197
	V	133	—	—	1	5	27	49	16	35	—	—	1	5	29	78	74	219
Colon, part not stated ...	Occ. & Ret. ...	3,108	1	5	39	150	416	909	569	1,014	0	1	5	21	66	227	451	808
	I	128	—	—	—	4	22	31	15	56	—	—	—	23	131	250	382	1,142
	II	846	—	1	6	36	96	237	165	305	—	2	4	23	68	253	565	884
	III	1,169	1	2	14	64	174	338	208	368	1	1	4	20	69	223	453	778
	IV	541	—	2	13	18	62	173	97	176	—	2	8	13	51	214	377	769
	V	419	—	—	6	28	62	130	84	109	—	—	7	30	68	207	391	682
Intestine, part not stated	Occ. & Ret. ...	2,004	1	8	16	85	254	551	389	700	0	2	2	12	41	137	308	557
	I	69	—	—	—	2	8	11	13	35	—	—	—	12	48	89	331	714
	II	548	—	3	4	17	66	126	125	207	—	5	3	11	47	134	428	600
	III	741	1	1	7	31	105	208	130	258	1	1	2	10	41	137	283	545
	IV	369	—	2	4	24	37	114	66	122	—	2	3	17	30	141	257	533
	V	277	—	2	1	11	38	92	55	78	—	4	1	12	41	146	256	488
Rectum and Anus ...	Occ. & Ret. ...	6,511	3	11	87	240	942	2,054	1,178	1,996	1	3	12	33	150	512	933	1,590
	I	181	—	—	—	2	27	62	24	66	—	—	—	12	161	500	612	1,346
	II	1,638	—	1	7	49	228	495	282	576	—	2	5	32	161	527	965	1,670
	III	2,579	1	5	57	112	387	772	474	771	1	3	16	35	152	510	1,032	1,630
	IV	1,235	2	4	13	50	169	403	227	367	2	4	8	36	138	498	882	1,604
	V	878	—	1	10	27	131	322	171	216	—	2	11	29	143	513	796	1,351

APPENDIX C—*continued.*

—	Social Class.	Deaths.									Mortality per million.							
		Total over 16.	16–	20–	25–	35–	45–	55–	65–	70 and over.	16–	20–	25–	35–	45–	55–	65–	70 and over.
Larynx	Occ. & Ret. ...	1,961	1	—	2	66	425	733	356	378	0	—	0	9	68	183	282	301
	I	52	1	—	—	—	5	21	9	16	26	—	—	—	30	170	229	326
	II	437	—	—	—	13	106	148	68	102	—	—	—	8	75	158	233	296
	III	743	—	—	—	33	147	269	134	160	—	—	—	10	58	178	292	338
	IV	343	—	—	1	13	80	138	63	48	—	—	1	9	66	171	245	210
	V	386	—	—	1	7	87	157	82	52	—	—	1	8	95	250	382	325
Skin	Occ. & Ret. ...	2,117	—	8	26	93	270	487	312	921	—	2	3	13	43	121	247	733
	I	25	—	1	—	2	3	7	2	10	—	14	—	12	18	56	51	204
	II	388	—	—	7	9	30	80	55	207	—	—	5	6	21	85	188	600
	III	812	—	5	13	39	113	188	130	324	—	3	4	12	44	124	283	685
	IV	477	—	2	4	20	58	114	60	219	—	2	3	14	47	141	233	957
	V	415	—	—	2	23	66	98	65	161	—	—	2	25	72	156	303	1,007
Breast	Occ. & Ret. ...	104	—	—	2	3	17	33	15	34	—	—	0	0	3	8	12	27
	I	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	20
	II	30	—	—	1	—	4	10	5	10	—	—	1	—	3	11	17	29
	III	32	—	—	1	1	6	8	3	13	—	—	0	0	2	5	7	27
	IV	17	—	—	—	1	3	5	2	6	—	—	—	1	3	6	8	26
	V	24	—	—	—	1	4	10	5	4	—	—	—	1	4	16	23	25
Peritoneum, Omentum, Mesentery	Occ. & Ret. ...	337	—	8	20	49	67	95	49	49	—	2	3	7	11	24	39	39
	I	16	—	—	2	2	1	4	2	5	—	—	14	12	6	32	51	102
	II	84	—	1	4	6	13	21	19	20	—	2	3	4	9	22	65	58
	III	126	—	4	6	22	33	39	14	8	—	2	2	7	13	26	30	17
	IV	59	—	2	5	11	12	16	4	9	—	2	3	8	10	20	16	39
	V	52	—	1	3	8	8	15	10	7	—	2	3	9	9	24	47	44
Pancreas	Occ. & Ret. ...	1,445	—	3	28	89	283	497	237	308	—	1	4	12	45	124	188	245
	I	47	—	—	—	—	4	24	8	11	—	—	—	—	24	194	204	224
	II	391	—	1	3	16	66	129	72	104	—	2	2	10	47	137	246	302
	III	540	—	1	14	45	110	180	89	101	—	1	4	14	43	119	194	214
	IV	233	—	1	5	17	50	84	32	44	—	1	3	12	41	104	124	192
	V	234	—	—	6	11	53	80	36	48	—	—	7	12	58	127	168	300

Kidney and Supra-renal	Occ. & Ret. ...	560	1	5	15	59	137	197	65	81	0	1	2	8	22	49	51	65
	I	16	—	—	—	1	—	8	3	4	—	—	—	6	—	65	76	82
	II	145	—	—	4	5	34	59	21	22	—	—	3	3	24	63	72	64
	III	221	—	5	5	29	57	73	20	32	—	3	1	9	22	48	44	68
	IV	104	1	—	4	12	26	36	12	13	1	—	3	9	21	45	47	57
	V	74	—	—	2	12	20	21	9	10	—	—	2	13	22	33	42	63
Bladder	Occ. & Ret. ...	1,832	1	2	5	60	216	545	396	607	0	1	1	8	35	136	314	483
	I	68	—	—	—	—	7	19	15	27	—	—	—	—	42	153	382	550
	II	470	1	—	2	10	50	124	109	174	2	—	1	6	35	132	373	504
	III	717	—	2	3	27	78	221	154	232	—	1	1	8	31	146	335	490
	IV	279	—	—	—	12	32	85	51	99	—	—	—	9	26	105	198	433
	V	298	—	—	—	11	49	96	67	75	—	—	—	12	54	153	312	469
Prostate	Occ. & Ret. ...	2,454	—	1	3	15	145	596	552	1,142	—	0	0	2	23	149	437	909
	I	119	—	—	—	1	4	20	31	63	—	—	—	6	24	161	790	1,284
	II	734	—	—	1	1	30	168	148	386	—	—	1	1	21	179	507	1,119
	III	943	—	—	2	3	67	238	214	419	—	—	1	1	26	157	466	886
	IV	365	—	1	—	7	24	91	79	163	—	1	—	5	20	113	307	712
	V	293	—	—	—	3	20	79	80	111	—	—	—	3	22	126	372	694
Testes	Occ. & Ret. ...	308	10	18	72	67	40	45	21	35	3	5	10	9	6	11	17	28
	I	9	—	1	—	2	1	1	1	3	—	14	—	12	6	8	25	61
	II	93	2	5	25	26	12	11	3	9	5	8	18	17	9	12	10	26
	III	109	2	8	36	21	11	12	6	13	1	4	10	7	4	8	13	27
	IV	63	4	1	8	13	11	11	7	8	4	1	5	9	9	14	27	35
	V	34	2	3	3	5	5	10	4	2	4	6	3	5	6	16	19	13
Brain	Occ. & Ret. ...	161	6	5	25	47	46	21	9	2	2	1	3	7	7	5	7	2
	I	5	—	—	1	2	2	—	—	—	—	—	7	12	12	—	—	—
	II	52	1	1	10	14	13	8	3	2	2	2	7	9	9	9	10	6
	III	69	4	3	10	21	18	10	3	—	2	2	3	7	7	7	7	—
	IV	21	—	1	4	6	8	1	1	—	—	1	3	4	7	1	4	—
	V	14	1	—	—	4	5	2	2	—	2	—	—	4	6	3	9	—
Bones	Occ. & Ret. ...	876	40	66	61	85	162	222	102	138	11	16	8	12	26	55	81	110
	I	19	—	1	1	1	2	6	1	7	—	14	7	6	12	48	25	143
	II	228	6	10	13	20	43	58	25	53	14	17	9	13	30	62	86	154
	III	354	17	36	24	37	64	92	41	43	11	20	7	12	25	61	89	91
	IV	168	12	14	15	20	23	42	24	18	11	14	10	14	19	52	93	79
	V	107	5	5	8	7	30	24	11	17	9	10	9	8	33	38	51	106

APPENDIX C—*continued.*

—	Social Class.	Deaths.									Mortality per million.							
		Total over 16.	16–	20–	25–	35–	45–	55–	65–	70 and over.	16–	20–	25–	35–	45–	55–	65–	70 and over.
Gall Bladder	Occ. & Ret. ...	510	—	—	2	15	71	148	91	183	—	—	0	2	11	37	72	146
	I	23	—	—	—	—	4	3	4	12	—	—	—	—	24	24	102	245
	II	119	—	—	—	3	10	35	19	52	—	—	—	2	7	37	65	151
	III	208	—	—	1	9	35	59	42	62	—	—	0	3	14	39	91	131
	IV	98	—	—	—	3	15	24	13	43	—	—	—	2	12	30	51	188
	V	62	—	—	1	—	7	27	13	14	—	—	1	—	8	43	61	88
Lung	Occ. & Ret. ...	1,153	10	12	41	145	335	340	139	131	3	3	5	20	54	85	110	104
	I	41	—	—	—	1	11	13	9	7	—	—	—	6	65	105	229	143
	II	293	3	3	9	40	69	91	31	47	7	5	6	26	49	97	106	136
	III	443	4	5	16	57	129	138	50	44	2	3	5	18	51	91	109	93
	IV	183	3	3	11	22	59	39	28	18	3	3	7	16	48	48	109	79
	V	193	—	1	5	25	67	59	21	15	—	2	6	27	73	94	98	94
Liver	Occ. & Ret. ...	4,638	3	4	56	175	658	1,446	904	1,392	1	1	7	24	105	360	716	1,109
	I	121	—	—	—	1	12	36	24	48	—	—	—	6	71	291	612	979
	II	1,166	—	1	6	32	150	352	210	415	—	2	4	21	106	375	719	1,203
	III	1,763	1	1	22	74	255	552	360	498	1	1	6	23	100	365	784	1,053
	IV	882	—	2	17	34	132	285	163	249	—	2	11	24	108	352	634	1,088
	V	706	2	—	11	34	109	221	147	182	4	—	12	37	119	352	684	1,138
Abdomen	Occ. & Ret. ...	320	1	3	6	11	37	95	43	124	0	1	1	2	6	24	34	99
	I	19	—	—	—	1	1	3	5	9	—	—	—	6	6	24	127	183
	II	91	—	—	2	1	7	19	16	46	—	—	1	1	5	20	55	133
	III	115	—	1	3	4	13	38	10	46	—	1	1	1	5	25	22	97
	IV	58	1	2	1	3	8	20	8	15	1	2	1	2	7	25	31	66
	V	37	—	—	—	2	8	15	4	8	—	—	—	2	9	24	19	50
Neck	Occ. & Ret. ...	136	—	—	—	3	30	54	19	30	—	—	—	0	5	14	15	24
	I	4	—	—	—	—	4	—	—	—	—	—	—	—	24	—	—	—
	II	20	—	—	—	—	5	4	3	8	—	—	—	—	4	4	10	23
	III	53	—	—	—	—	9	23	8	13	—	—	—	—	4	15	17	27
	IV	29	—	—	—	2	4	14	3	6	—	—	—	1	3	17	12	26
	V	30	—	—	—	1	8	13	5	3	—	—	—	1	9	21	23	19

Lymphatic Glands ...	Occ. & Ret. ...	1,580	15	20	59	109	379	526	203	269	4	5	8	15	61	131	161	214
	I	38	—	—	—	3	13	11	2	9	—	—	—	17	77	89	51	183
	II	298	3	3	13	18	75	94	32	60	7	5	9	12	53	100	110	174
	III	639	6	10	25	56	151	209	71	111	4	5	7	17	59	138	155	235
	IV	277	4	6	10	18	67	88	37	47	4	6	7	13	55	109	144	205
	V	328	2	1	11	14	73	124	61	42	4	2	12	15	80	197	284	263
Mediastinum	Occ. & Ret. ...	708	4	8	27	62	169	231	105	102	1	2	4	9	27	58	83	81
	I	43	—	—	2	—	10	15	6	10	—	—	14	—	59	121	153	204
	II	195	—	3	6	16	44	53	34	39	—	5	4	10	31	57	116	113
	III	249	3	1	8	31	51	87	34	34	2	1	2	10	20	58	74	72
	IV	135	1	3	5	8	40	44	18	16	1	3	3	6	33	54	70	70
	V	86	—	1	6	7	24	32	13	3	—	2	7	8	26	51	61	19
Other specified sites ...	Occ. & Ret. ...	856	8	13	18	76	163	263	125	190	3	3	2	10	26	66	99	151
	I	29	—	—	—	3	7	9	2	8	—	—	—	17	42	73	51	163
	II	198	—	1	5	18	43	64	23	44	—	2	4	12	30	68	79	128
	III	311	5	7	8	33	51	98	44	65	3	4	2	10	20	65	96	138
	IV	170	2	3	5	9	33	41	29	48	2	3	3	6	27	51	113	210
	V	148	1	2	—	13	29	51	27	25	2	4	—	14	32	81	126	157
Multiple	Occ. & Ret. ...	61	1	2	4	12	15	15	7	5	0	1	1	2	2	4	6	4
	I	2	—	—	—	—	1	1	—	—	—	—	—	—	6	8	—	—
	II	13	—	—	1	3	1	5	1	2	—	—	1	2	1	5	3	6
	III	28	1	2	2	6	8	4	3	2	1	1	1	2	3	3	7	4
	IV	8	—	—	—	—	3	3	2	—	—	—	—	—	3	4	8	—
	V	10	—	—	1	3	2	2	1	1	—	—	1	3	2	3	5	6
Site not stated	Occ. & Ret. ...	38	—	—	—	2	7	15	8	6	—	—	—	0	1	4	6	5
	I	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	II	9	—	—	—	1	—	4	1	3	—	—	—	1	—	4	3	9
	III	16	—	—	—	—	5	7	3	1	—	—	—	—	2	5	7	2
	IV	4	—	—	—	—	2	1	1	—	—	—	—	—	2	1	4	—
	V	9	—	—	—	1	—	3	3	2	—	—	—	1	—	5	14	13

APPENDIX D.

STANDARDIZED MORTALITY (C.M.F.) of Males, aged 20–65 years, from Cancer of the Tongue, Œsophagus, and Stomach, and ratio to that of all Occupied and Retired Civilian Males taken as 1,000—1921–23.

Group No.	Occupation.	C.M.F.			Ratio.		
		Tongue.	Œsophagus.	Stomach.	Tongue.	Œsophagus.	Stomach.
	All Occupied and Retired Civilian Males	7·5	9·7	29·5	1,000	1,000	1,000
	Social Class I.—Upper and Middle	3·6	7·4	17·6	480	763	597
	Social Class II.—Intermediate	5·5	8·8	24·2	733	907	820
	Social Class III.—Skilled Workers	7·1	10·1	29·4	947	1,041	997
	Social Class IV.—Intermediate	7·5	8·5	31·2	1,000	876	1,058
	Social Class V.—Unskilled Workers	12·4	12·6	38·2	1,653	1,299	1,295
1	Farmers and their relatives	2·4	3·2	26·4	320	330	895
2	Gardeners and their labourers	5·9	8·3	23·3	787	856	790
3	Farm bailiffs and foremen	1·2	2·7	19·3	160	278	654
4	Woodmen and labourers in woods and forests	—	2·4	31·2	—	247	1,058
5	Agricultural labourers (including shepherds)	2·9	5·3	24·7	387	546	837
6	Coal mine—subordinate superintending staff	0·7	4·2	31·5	93	433	1,068
7	Coal mine—hewers and getters	4·7	3·6	34·9	627	371	1,183
8	Coal mine—persons conveying material to the shaft	6·7	4·0	29·3	893	412	993
9	Coal mine—persons making and repairing roads	7·4	4·3	42·4	987	443	1,437
10	Coal mine—other workers below ground	6·7	4·4	44·1	893	454	1,495
11	Coal mine—workers above ground, not superintending staff	5·9	2·1	31·8	787	216	1,078
12	Iron ore mine—underground workers, not superintending staff	3·9	3·8	29·9	520	392	1,014
13	Tin and copper miners—not superintending staff	—	—	29·9	—	—	1,014
13A	Tin and copper mine—underground workers, not superintending staff	—	—	47·2	—	—	1,600
14	Stone miners and quarriers	8·7	1·6	24·9	1,160	165	844
15	Slate miners and quarriers	—	—	41·4	—	—	1,403
16	Cement workers, lime burners, etc.	5·9	5·4	26·4	787	557	895
17	Brick and plain tile makers, etc.; furnace, etc., pot makers	11·6	5·2	33·9	1,547	536	1,149
18	Potters' mill workers; slip makers; potters	9·3	11·1	14·0	1,240	1,144	475
19	Pottery dippers, glazers, painters, decorators	13·7	13·7	45·2	1,827	1,412	1,532
20	Earthenware, china, etc., kiln and oven men	21·5	21·5	34·7	2,867	2,216	1,176
21	Brick, tile, etc., kiln and oven men	6·8	15·7	14·7	907	1,619	498
22	Other persons engaged in the manufacture of bricks, tiles and pottery	14·6	7·3	42·3	1,947	753	1,434
23	Skilled glasshouse workers	8·5	8·5	24·2	1,133	876	820
23A	Glass blowers and finishers, not machine hands	16·2	16·2	14·7	2,160	1,670	498
24	Other skilled glass workers	5·2	18·6	40·5	693	1,918	1,373
25	Chemical workers	7·9	13·2	31·9	1,053	1,361	1,081
26	Makers of paint, oil, soap, grease, etc.	7·3	18·2	31·3	973	1,876	1,061
27	Persons engaged in the smelting, rolling and converting of iron and steel	14·6	17·5	30·8	1,947	1,804	1,044
27A	Puddlers	25·1	30·4	30·4	3,347	3,134	1,031
28	Metal moulders	10·6	11·6	31·6	1,413	1,196	1,071
29	Iron foundry furnacemen and labourers	11·9	6·0	31·2	1,587	619	1,058
30	Brass foundry furnacemen and labourers	—	9·3	18·5	—	959	627
31	Smiths and skilled forge workers	8·8	12·7	33·5	1,173	1,309	1,136
32	Machine tool workers and metal spinners	9·0	6·1	31·5	1,200	629	1,068
33	Fitters, tool setters, millwrights, and similar occupations	5·4	9·6	25·3	720	990	858
34	Boiler makers and platers, and their labourers	11·3	14·0	25·3	1,507	1,443	858
35	Brass finishers and turners	4·0	11·7	54·0	533	1,206	1,831
36	Coppersmiths	—	22·5	11·2	—	2,320	380
37	Cutlers	8·6	28·9	18·2	1,147	2,979	617
38	File cutters	—	19·1	—	—	1,969	—
39	Gas fitters and pipe fitters	5·8	17·4	36·7	773	1,794	1,244
40	Metal grinders	21·8	19·5	44·8	2,907	2,010	1,519
40A	Grinders in the cutlery trade	34·8	—	49·1	4,640	—	1,664
41	Metal glazers, polishers, buffers and moppers	7·7	15·4	57·9	1,027	1,588	1,963
42	Plumbers	10·8	10·6	15·4	1,440	1,093	522
43	Rivetters and their labourers	4·5	12·9	29·1	600	1,330	986
44	Tinsmiths and sheet metal workers	4·6	10·2	31·8	613	1,052	1,078
45	Gold, silver, and white metal smiths	9·3	16·9	29·9	1,240	1,742	1,014
46	Electrical engineers, fitters and wiremen	5·5	21·9	25·3	733	2,258	858
47	Makers of watches, clocks, scientific and electrical instruments	5·9	14·1	24·7	787	1,454	837
48	Skilled lime and tanyard workers, curriers and leather dressers	11·6	16·1	34·5	1,547	1,660	1,169
49	Skilled leather goods makers	3·3	17·0	18·5	440	1,753	627
50	Wool sorters	—	19·3	16·3	—	1,990	553
51	Cotton blow room operatives—skilled	12·1	—	50·5	1,613	—	1,712
52	Rag grinders; wool willowers, etc.	6·8	—	68·1	907	—	2,308
53	Cotton card and frame (not spinning frame) tenters	—	9·4	19·0	—	969	644
54	Wool, worsted card, comb, or frame (not spinning frame) tenters	3·6	20·3	30·6	480	2,093	1,037
55	Cotton strippers and grinders and card-room jobbers	—	19·1	6·8	—	1,969	231
56	Cotton spinners and piecers	5·4	9·4	47·3	720	969	1,603
57	Wool and worsted spinners and piecers	—	—	45·3	—	—	1,536
58	Cotton—doublers, winders, warpers, beamers, etc.	3·5	10·9	40·2	467	1,124	1,363
59	Wool and worsted—doublers, winders, warpers, beamers, etc.	—	—	7·8	—	—	264
60	Cotton weavers	6·3	7·2	35·6	840	742	1,207
61	Woollen and worsted weavers	3·0	3·0	30·2	400	309	1,024
62	Weavers of other textiles	—	—	28·5	—	—	966
63	Hosiery frame tenters and machine knitters	4·8	14·8	52·5	640	1,526	1,780
64	Dye mixers and dyers	5·6	5·6	36·1	747	577	1,224
65	Scourers (woollen, worsted and hosiery); calenderers and finishers	11·2	7·5	43·6	1,493	773	1,478
66	Cutters of textile goods and clothing (not machine cutters)	—	18·2	9·1	—	1,876	308

Group No.	Occupation.	C.M.F.			Ratio.		
		Tongue.	Œsophagus.	Stomach.	Tongue.	Œsophagus.	Stomach.
67	Tailors; tailors' pressers and machinists	3·1	8·5	24·0	413	876	814
68	Hat formers, plankers, stiffeners	6·8	14·1	48·8	907	1,454	1,654
69	Boot and shoe makers and repairers (not factory hands)	7·1	9·2	25·9	947	948	878
70	Boot and shoe clickers and cutters	3·5	3·5	32·1	467	361	1,088
71	Skilled boot and shoe operatives—not clickers or cutters	3·8	6·1	34·5	507	629	1,169
72	Grain millers	3·5	3·5	22·6	467	361	766
73	Bakers and pastrycooks	7·4	12·7	28·8	987	1,309	976
74	Brewers of ale, stout, and porter	24·7	37·9	—	3,293	3,907	—
75	Cellarmen	6·1	44·4	26·1	813	4,577	885
76	Tobacco factory operatives	—	8·6	35·0	—	887	1,186
77	Foremen and overlookers (wood working)	3·0	3·1	52·9	400	320	1,793
78	Cabinet makers	8·4	15·0	39·6	1,120	1,546	1,342
79	Carpenters, coachbuilders, pattern makers and similar occupations	7·4	11·6	27·5	987	1,196	932
80	French polishers	11·6	30·7	36·5	1,547	3,165	1,237
81	Sawyers, wood turners and machinists	5·6	5·4	36·6	747	557	1,241
82	Upholsterers, coach trimmers, and bedding makers	5·3	23·3	30·9	707	2,402	1,047
83	Paper mill workers	6·8	7·1	30·9	907	732	1,047
84	Hand compositors	5·1	11·4	19·2	680	1,175	651
85	Machine compositors	—	11·9	—	—	1,227	—
86	Photographers	—	10·9	20·0	—	1,124	678
87	Printing machine minders and assistants; machine rulers	8·9	7·7	28·0	1,187	794	949
88	Bookbinders and pattern card makers	—	35·5	40·7	—	3,660	1,380
89	Employers and managers in the building, contracting and decorating trades; clerks of works	5·0	8·0	30·6	667	825	1,037
90	Foremen and gangers (building and contracting)	1·2	3·5	26·7	160	361	905
91	Bricklayers	10·2	12·9	27·4	1,360	1,330	929
92	Plasterers	13·7	10·7	54·2	1,827	1,103	1,837
93	Slaters and tilers	17·9	12·4	23·5	2,387	1,278	797
94	Masons; stone cutters and dressers	7·6	8·4	44·0	1,013	866	1,492
95	Slate masons and slate workers	—	16·2	42·1	—	1,670	1,427
96	Platelayers	5·8	1·5	28·4	773	155	963
97	Contractors' labourers; navvies	6·9	9·5	29·7	920	979	1,007
98	Painters and decorators	9·0	13·7	29·2	1,200	1,412	990
99	Building trade labourers	10·6	11·2	36·7	1,413	1,155	1,244
100	Rubber workers	25·4	25·0	36·7	3,387	2,577	1,244
101	Drafters and brush makers	10·1	15·5	35·7	1,347	1,598	1,210
102	Shipwrights	6·2	5·7	38·5	827	588	1,305
103	Shipyard labourers, etc.	13·3	8·4	53·3	1,773	866	1,807
104	Gas stokers	6·8	4·5	29·6	907	464	1,003
105	Railway officials, station masters, etc.	7·0	6·0	17·6	933	619	597
106	Locomotive engine drivers, firemen, cleaners	7·4	6·0	24·6	987	619	834
107	Railway guards	5·3	6·6	20·0	707	680	678
108	Railway signalmen	3·5	3·5	23·2	467	361	786
109	Shunters, pointsmen and level-crossing men	7·3	7·7	33·7	973	794	1,142
110	Railway porters and lampmen	10·0	13·6	37·5	1,333	1,402	1,271
111	Livery stable and motor-garage proprietors and managers; haulage contractors	3·8	8·5	15·9	507	876	539
112	Drivers of horse-drawn vehicles	15·7	19·6	42·0	2,093	2,021	1,424
113	Drivers of motor vehicles and steam wagons	6·9	12·8	28·0	920	1,320	949
114	Tram drivers	5·1	5·1	16·2	680	526	549
115	Omnibus and tram conductors	28·3	7·3	33·0	3,773	753	1,119
116	Grooms and horse keepers	12·0	14·2	26·7	1,600	1,464	905
117	Bargemen and boatmen	6·0	11·8	40·6	800	1,216	1,376
118	Stevedores	22·4	28·6	33·3	2,987	2,948	1,129
119	Coal-boat loaders and dischargers	24·2	19·5	12·8	3,227	2,010	434
120	Other dock labourers	20·3	12·2	46·1	2,707	1,258	1,563
121	Messengers, hall porters, lift attendants, etc.	4·4	20·4	28·0	587	2,103	949
122	Porters	19·6	22·7	42·6	2,613	2,340	1,444
123	Proprietors and managers of wholesale or retail dealing businesses	5·5	7·9	25·6	733	814	868
123A	Proprietors and managers of businesses for the sale of fish, meat, greengrocery and milk	7·8	12·7	29·9	1,040	1,309	1,014
123B	Proprietors and managers of businesses for the sale of grocery and provisions	4·3	7·8	25·0	573	804	847
123C	Proprietors and managers of businesses for the sale of textiles and clothing	4·2	5·7	22·1	560	588	749
124	Salesmen and shop assistants	6·3	12·2	26·7	840	1,258	905
124A	Salesmen and shop assistants in businesses for the sale of fish, meat, greengrocery and milk	9·3	13·9	39·2	1,240	1,433	1,329
124B	Salesmen and shop assistants in businesses for the sale of grocery and provisions	5·4	15·9	22·9	720	1,639	776
124C	Salesmen and shop assistants in businesses for the sale of textiles and clothing	15·1	6·6	34·0	2,013	680	1,153
125	Commercial travellers	7·6	20·3	24·7	1,013	2,093	837
126	Canvassers, roundsmen and van salesmen	1·9	18·4	26·0	253	1,897	881
127	Costermongers, hawkers and street sellers	14·4	10·4	38·8	1,920	1,072	1,315
128	Bank officials	—	4·4	11·3	—	454	383
129	Insurance officials	1·4	—	28·4	187	—	963
130	Insurance agents and canvassers	4·2	7·0	29·9	560	722	1,014
131	Auctioneers, appraisers, valuers	7·2	10·7	19·2	960	1,103	651
132	Civil service officials and clerks	4·8	8·1	17·1	640	835	580
133	Local authority officials and clerks	6·7	5·2	18·8	893	536	637
134	Clergymen (Anglican Church)	1·4	1·7	17·4	187	175	590
135	Roman Catholic priests; monks	—	11·1	9·3	—	1,144	315
136	Ministers of other religious bodies	—	2·3	13·8	—	237	468
137	Barristers	6·2	—	—	827	—	—
138	Solicitors	1·9	13·4	15·6	253	1,381	529
139	Registered medical practitioners	5·3	10·6	12·1	707	1,093	410
140	Dentists	5·6	4·5	19·0	747	464	644
141	Teachers (not music teachers)	4·0	4·7	18·1	533	485	614
142	Music teachers	—	20·4	4·7	—	2,103	159
143	Civil engineers and surveyors	—	7·5	10·7	—	773	363
144	Architects	11·3	10·1	14·1	1,507	1,041	478
145	Authors, editors, journalists	8·8	14·4	14·9	1,173	1,485	505

Group No.	Occupation.	C.M.F.			Ratio.		
		Tongue.	Œsophagus.	Stomach.	Tongue.	Œsophagus.	Stomach.
146	Artists	3·3	13·3	28·8	440	1,371	976
147	Proprietors and managers of theatres, entertainments, sports	3·1	—	33·7	413	—	1,142
148	Actors	5·2	16·7	38·3	693	1,722	1,298
149	Musicians	20·9	16·3	35·6	2,787	1,680	1,207
150	Domestic servants (indoor)	7·6	16·7	19·8	1,013	1,722	671
151	Gamekeepers	6·0	12·6	23·5	800	1,299	797
152	Inn, hotel—keepers, publicans	12·4	17·8	29·0	1,653	1,835	983
153	Barmen	41·2	41·6	55·5	5,493	4,289	1,881
154	Waiters	12·7	39·6	55·2	1,693	4,082	1,871
155	Laundry workers	—	16·2	20·3	—	1,670	638
156	Hairdressers, etc.	9·1	13·0	26·3	1,213	1,340	892
157	Chimney sweeps	5·4	4·4	40·7	720	454	1,380
158	Clerks (not civil service or local authority); typists	6·5	13·1	20·6	867	1,351	698
158A	Bank and insurance clerks	11·4	12·3	20·7	1,520	1,268	702
158B	Railway clerks	4·0	4·0	7·6	533	412	258
159	Draughtsmen	5·3	—	15·0	707	—	508
160	Warehousemen	9·5	12·4	28·1	1,267	1,278	953
160A	Warehousemen—textiles and clothing	3·5	26·9	44·0	467	2,773	1,492
160B	Warehousemen—cereals, provisions and dry goods	4·1	11·7	30·9	547	1,206	1,047
161	Storekeepers	6·0	15·3	33·0	800	1,577	1,119
162	Packers	8·4	10·4	31·1	1,120	1,072	1,054
163	Stationary engine and crane drivers	7·4	8·7	38·3	987	897	1,298
164	General and undefined labourers	14·3	14·5	43·2	1,907	1,495	1,464

Printed under the authority of HIS MAJESTY'S STATIONERY OFFICE
By Harrison and Sons, Ltd., 44–47, St. Martin's Lane, W.C.2.

(34/3490)Q Wt. 27870—1368/1962 1750 1/28 H & S Ltd. Gp. 34.